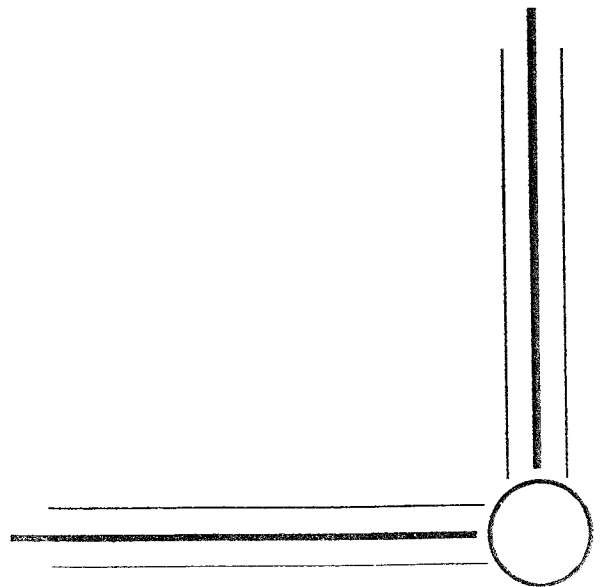# Computer Software Services

1994-1995

Catalog of Products

Computer Software Services
PO Box 17660
Rochester, New York 14617

Ordering line: (716) 429–5639
FAX: (716) 247–7158
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Computer Software Services has been leading the way in innovative computing devices for the Atari 8–bit computer since 1982. **Twelve years later**, we are continuing to develop new products, squeezing every ounce of performance out of the 8–bits.

All products in this catalog are currently available as of March, 1994. However, prices and availability are subject to change without notice. Shipping costs have been listed for single purchases within the USA. Please call for multiple package or overseas shipping rates.

A look at the past

In 1982, Computer Software Services was founded with its first product, **the Pill**, which became an immediate success. The product line expanded to include disk drive modifications and simple computer enhancements.

When Atari introduced the XL series, CSS was the first to develop a translator program (called the XL FIX), which actually worked better than the one Atari later released. **The Impossible** was released about this time, becoming a best–seller. It was the first backup tool that made backing up protected programs on unmodified disk drives possible.

In 1987, CSS came out with what was said to be "Impossible": the **Super Archiver** for the 1050 drive. This was (and still is) the only backup tool capable of reproducing all the different types of error sectors including "phantom" sectors.

Two years later, the **Black Box** was developed. Although not being the first in its class, it remains the most compatible and fastest hard disk host adapter available. The **Multiplexer** was also released, being the first practical networking system for the 8-bit.

When Atari released the XF551 drive, CSS was there with the **XF551 Enhancer**, and later the **XF Single and Dual Drive Upgrades**.

In June of 1991, Bob Puff became President of CSS. Bob is the designer of the majority of CSS' current products, as well as ShareWare programs **SuperArc** and **BobTerm**. In early 1992, CSS came out with one of its most innovative products, **The Floppy Board**, allowing the 8-bit user to use industry standard drive mechanisms on their 8-bit at amazing speed.

In 1994, CSS continues to provide unparalleled support for the Atari 8-bit computer. Just added to the CSS product lineup are five of the most popular products ever made for the 8-bit: the **R-Time8** clock cartridge, **MAC/65** assembler, and the **BASIC XL**, **BASIC XE**, and **Action!** programming languages!

What the future holds for CSS will depend on God. Although many companies have abandoned the Atari 8–bit, we see it as a viable computer able to meet the needs of the average computer user. Rest assured, we will be here supporting this machine for a long time to come! If you have suggestions or comments, contact us!

CSS Product Index

R-time 8

If you use SpartaDOS or run a Bulletin Board System, you know how important it is to set the correct time/date when you boot up to maintain the proper time/date stamp on your files, or keep your BBS from deleting messages/users! The *R-time8* is a stackable cartridge that does all of this for you. It is a battery-powered electronic clock with reasonable accuracy you need only set once - programs can then access it instead of having to ask you for the current time/date. The cartridge comes with the latest disk version of SpartaDOS, the SpartaDOS manual supplement (not the full manual), and a handler (including 6502 source code) allowing you to access the *R-time8* within your own programs. Only $49.95 plus $5 shipping/handling. Note that only SpartaDOS currently supports the time/date stamping of individual files.

Action!

Named "The fastest, high level language available for the Atari," *Action!* has indeed become a popular language since its introduction in 1983. Many games and useful utilities have been written using this language cartridge from Optimized Systems Software. It is a high level structured language that compiles to 6502 machine code in a single pass. It incorporates features found in PASCAL, C, ALGOL, and ADA; yet it has many commands familiar to Atari BASIC.

The editor in this cartridge is almost worth the price! It has many features for easily creating and modifying source text, or any text...two separate windows, each allowing up to 240 characters per line...fast horizontal and vertical scrolling... move and copy text... string find and replace... and much more! The monitor section selects compiling options, saves compiled programs, examines variable values and memory locations, and even traces execution of your programs. The compiler section is very fast, allowing source to be either in memory or on disk.

Included with the cartridge is the *Action! Toolkit*, which has many sample programs and useful libraries for string manipulation, disk operations, graphics, and more. Also included is the *Runtime library*, which allows programs to be run without the cartridge! All known correctable 'glitches' have been corrected in this latest version, with the remaining ones fully documented in the enclosed documentation.

The language cartridge, toolkit, and runtime disks and manuals are only $49.95 plus $5 shipping/handling.

BASIC XL

How would you like to have a language that has the look and feel of Atari Basic, actually running Atari Basic files, yet two to four times faster, with many more built-in features and commands? *BASIC XL* is it! This is another language cartridge originally from Optimized Systems Software, the people that made the original Atari BASIC. Automatic line numbering / renumbering, string arrays, bit operators, program tracing, PRINT USING support, hexadecimal mode, and direct player/missile graphic support are just a few of the many things that set this language out ahead of standard BASIC.

Also included is the *Basic XL Toolkit*, in which several different sample programs are dissected and explained - an excellent learning tool! A Runtime file is included, allowing you to write programs that can run without the cartridge! And to top it off, extended commands for sorting can be loaded from disk. The toolkit itself is worth the price of the package! Only $49.95 plus $5 shipping/handling.

BASIC XE

OSS didn't stop with BASIC XL... Utilizing the extra 64k of memory in 130XE and upgraded XL computers, they developed the ultimate BASIC -*BASIC XE*!

Although still compatible with standard Atari BASIC programs, this language cartridge offers even faster math routines, formatting of printed listings, advanced string handling including sorting, added player/missile commands, explanatory error messages, and most importantly, access of the extra 64k of memory in 130XE and upgraded XL computers! You now can have 64k of space for your program, and 30k+ for variable space!

Also added is the dimension of Procedures and Local variables, resembling other high level languages. The FoReM XE Bulletin Board System is a program that was written using this truly amazing language. We also include the *Basic XL toolkit*, as all of its utilities and learning examples apply to this language. Truly a power package for only $49.95 plus $5 shipping/handling.
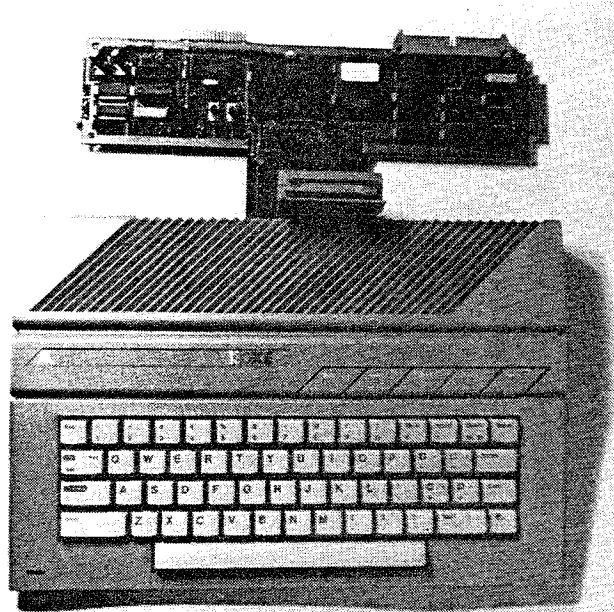
MAC/65

This is truly THE 8-bit assembler of choice. *MAC/65* is the fastest macro assembler available, assembling thousands of lines per minute. The editor, assembler, and debugger are all built-in and directly accessible, so program development time is streamlined. The DDT (Dunion's Debugging Tool) debugger has all you would expect - disassembly, single step, trace, and multiple breakpoints - plus many extras.

Also included with the package is the *MAC/65 Toolkit*, containing examples and BASIC-like macros, allowing an easier transition into assembly language programming.

This is the tool we use for all of the development work at CSS. We've even fixed the one minor bug *MAC/65* had with SpartaDOS, making it <u>100% bug free</u>! If you want to get into machine language programming, this is the way to do it! Only $49.95 plus $5 shipping/handling.

The *Black Box* is an add-on board for the Atari 600XL (64kB), 800XL, and 130XE 8-bit computers. It is a T-shaped board that plugs into the PBI port of the XL computer, or the ECI and cartridge ports of the 130XE. Connectors for both types of computers are built into the *Black Box*, so no adapter boards are necessary. A cartridge port is available on the board itself for 130XE users, since the board plugs into the cartridge port. The board is 12 inches wide and 3 inches deep, sitting back 3 inches from your computer. It has two switches, two push-buttons, and a set of DIP switches on the top.

The *Black Box* provides many unique and useful functions. The four primary functions are:

◊ RS-232 serial modem port ◊
◊ Parallel printer port ◊
◊ SASI/SCSI hard disk port ◊
◊ Operating System enhancements ◊

The RS-232 port provides the full RS–232 specification signal levels for a modem or other serial device. It emulates the Atari 850 interface very closely, but goes beyond by providing 19,200 baud capability. The R: driver is built in, and does not use any user memory. The *Black Box* is the only interface to support <u>hardware flow control</u>. This enables owners of high speed modems (4800 baud and up) to use their modem at full speed, and not worry about data loss due to a slow BBS or terminal program.

The parallel printer port interfaces to most all Centronics printers. You may assign the printer number and linefeed options from within the *Black Box's* configuration menu. The *Black Box* allows <u>buffering</u> of the data to be printed. A printer buffer allows you to quickly dump your file to be printed, then go about your business as it sends the data to your printer. The *Black Box* will use either its own RAM (if you order the 64K version) or the 130XE (and compatibles) extended memory banks. This is all controlled by the configuration menu.

The hard disk port was the real reason for the design of the *Black Box*. You may connect most any hard disk controller that is SASI or SCSI compatible, or embedded SCSI drives. It is totally compatible with the current versions of MYDOS and SpartaDOS (both of which have a limit of 16 megabytes per logical drive). Combine that with nine drives, and that's over 130 megs available at any given time, but your total storage is virtually limitless! The *Black Box* is the <u>only</u> interface to provide a conversion toggle for drives capable of only 512 byte sectors. Many of the new 3.5 inch embedded drives have this limitation, and previously were unusable. The *Black Box* splits each 512 byte sector into two 256 byte sectors, so your DOS will still only see what it requires. Another advantage to 512 byte mode is storage space. Many drives/controllers will give you more storage when using 512 byte sectors (some as much as 15% more).

The *Black Box* has been tested with many drives and controllers. So far, no controller or embedded drive has been found to be incompatible. The following SASI/SCSI to ST506 controllers have been tested: Adaptec 4000 and 4070, Konan DJ210, OMTI 352x, Seagate ST9000, SMS FWD5001, Western Digital WD1002SHD, and Xebec S–1410(a) controllers.

A partition is defined as a part of the hard disk which is seen by the computer as a separate disk drive. Since many hard disks are very large, it is useful to split the drive into several individual "drives" or partitions. The *Black Box* goes one step further in not only letting you define the partition for each of your 9 available drives, but allows you to have a list of up to 96 partitions with names. Since a partition can be very small, you can make several small partitions of 720 sectors (the same size as a standard floppy disk), and sector-copy any of your non-protected programs to these partitions. Now you can swap that partition in as drive 1, and boot your program at hard disk speed!

The configuration menu is the "heart" of the *Black Box*. You can enter the menu from wherever you are by simply pressing one of the buttons on the board. You may now edit the hard disk configuration, exchange drive numbers, enable/disable the modem and printer ports, or go into the 6502 monitor. After you are finished, pressing ESCAPE will put you right back into the program you were using! No memory or screen display is destroyed by using the menu.

The 6502 monitor is very handy for machine language programmers. How often have you wondered where your program was, or what caused an apparent "lock-up"? Entering the monitor will show you all the processor registers, and display the disassembly of the instruction it was about to execute when you pressed the button. Users of MAC/65's DDT will feel right at home with the commands. Zero page is left untouched!

The *Black Box* speeds operation to floppy drives if they are capable of high speed mode. XF551s, modified 1050s, and Happy 810 drive owners will experience high speed operation with virtually all programs, not just specialized utilities. RAMdisk owners will appreciate the HELP/RESET coldstart switch, allowing rebooting of the computer from any lockup, while retaining the data in the RAMdisk.

A text or graphics printer dump of your screen may be done at any time by pressing one of the buttons on the *Black Box*. (The graphics dump is only available for dot-matrix printers capable of graphics.)

You may write-protect ALL of your hard disks by flipping a switch on the board. This can be a real life saver when running new or unknown software. The *Black Box* provides disk I/O tones with separate pitches for disk reads and writes to your hard disk, so you can hear what's going on. This option may be disabled from within the configuration menu.

The *Black Box* also provides support for users who have previously used an ICD MIO to store data on a hard disk. The MIO actually stores data inverted: this is fine as long it is your only host adaptor, but when another (such as the *Black Box*) reads the same data, it will be meaningless. You can have compatibility with an MIO–formatted hard disk by simply setting a DIP switch.

CSS offers a complete line of accessories for your *Black Box*. The *Black Box Case*, a durable black plastic housing for your *Black Box*, sells for $39.95. Both the *Black Box serial cable*, a ready-to-use modem cable, and the *Black Box printer cable*, a ready-to-use Centronics printer cable, sell for $9.95 each. The *Black Box* is $199.95 for the basic unit, and $249.95 with an onboard 64kB printer buffer. Shipping and handling is $8.

The Floppy Board

The *Floppy Board* is an add-on expansion board for the *Black Box* interface. It allows the use of the same inexpensive floppy drive mechanisms used in IBM computers. The *Floppy Board* is the first floppy drive interface to support "high density" floppy drive mechanisms. Up to four floppy drive mechanisms can be connected. The *Floppy Board* supports not only 720kB and 1.44MB 3.5 inch drives, but also the popular 1.2MB and 360kB 5.25 inch drives. Also supported are the older 180kB 5.25 inch, 360kB 3.5 inch, and 8 inch floppy drives. <u>Built-in</u> to the *Floppy Board* are our *Black Box Enhancer* (see below) and a version of our *Super Archiver* to allow copying of protected disks for 3.5 inch format.

Since the *Floppy Board* uses the parallel bus interface on your computer, disks formatted on the *Floppy Board* are accessed at very fast speeds, providing <u>substantial</u> performance increases never before seen on an 8-bit computer. When first booting your computer, a *Floppy Board* drive will load MYDOS 4.50 <u>four times faster</u> than an Atari 1050!

Floppy Board drives connect to the floppy drive port on the *Black Box*, and are configured through the *Black Box* configuration menu. *Floppy Board* drives are addressed differently than external drives, so they do not interfere with their operation. Through the *Black Box* configuration menu, you can have four external drives and four *Floppy Board* drives online at once! Included with your *Floppy Board* is our program to <u>read, write, and format</u> IBM or ST disks. This makes the *Floppy Board* the best way to transfer files to or from your 8-bit!

Installation requires only two simple solder connections and plugging the *Floppy Board* into your *Black Box*. The *Floppy Board* is only $149.95 plus $8 shipping and handling. <u>IMPORTANT: Please call or FAX for availability before ordering</u> . We also sell drives, drive cables, power supplies, and power conversion cables for floppy drive mechanisms.

The Black Box Enhancer

A must for all *Black Box* owners! The *Black Box Enhancer* is a plug-in module for your *Black Box*, enhancing the printer functions and adding an instantly available, full featured sector editor!

The built in screen dump function will now render a hardcopy with a 16 shade grey scale representation of the colors. A special graphics printer handler is built-in, which allows any output directed to P9: to be printed on your graphics–compatible printer with the same character font used on your computer. This means all the Atari special control and graphics characters will be printed, along with inverse!
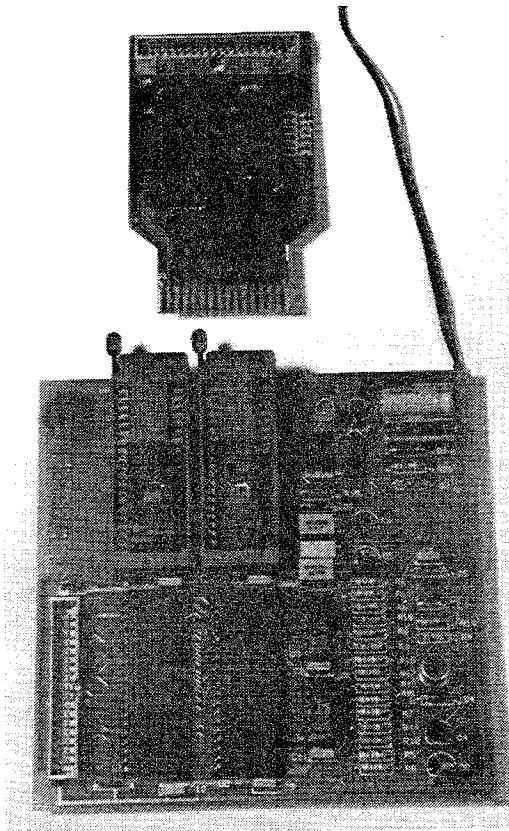
The built-in *Task Master* sector editor is the most powerful editor we've seen for the 8–bit. It contains a sector copier featuring multiple copies, automatic formatting, and uses all available memory. Since the *Black Box* provides Ultra Speed data transfer to modified floppy drives, this makes for fast disk duplication.

The *Task Master* is not limited to only floppy disks. It can handle up to 16MB hard disk partitions (even in the sector copier mode). All three densities are supported. The sector editor allows editing (in hexadecimal or character mode) of individual sectors on a floppy or hard disk. You may search for a sequence of bytes (again, in hexadecimal or character mode), and even disassemble the contents of a sector into 6502 code. Since the *Black Box* gives you the capability to do screen dumps to your printer, you can make hardcopies of your editing.

The *Task Master* sector editor provides <u>full</u> DOS support for MYDOS, SpartaDOS, and Atari DOS derivatives. Subdirectories are fully supported. You may link through individual files by simply moving through the directory and highlighting the file you wish to edit. 16 bit and sector map linking are supported for hard disks, and 11 bit linking for floppies. It is ideal for quickly editing files and repairing damaged directories.

Installation of the *Black Box Enhancer* requires one simple solder connection. Only $49.95 plus $5 shipping/handling.

The Super E-Burner

The *Super E-Burner* is a PROM/EPROM programmer that plugs into your cartridge port. While a ROM permanently stores data (such as in a cartridge), an EPROM is a programmable ROM that is used for permanent or semi-permanent data storage. The *Super-E Burner* provides the special voltages and pulses need to program these devices, and at very fast speeds! It can program all EPROM sizes ranging from the 2732 to the newer 1MB EPROMs. The easy to use software allows you to read and program EPROMs and save their contents to disk.
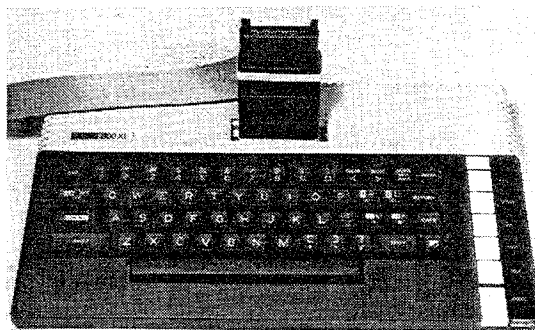
The *Super-E Burner* is only $169.95. Also available is the *Gang Super E-Burner* (which burns two EPROMs at once) for $199.95. Add $8 for shipping/handling.

This device brings the power and flexibility of larger systems to your 8-bit. *The Multiplexer* is a collection of cartridge interface boards that allow up to 8 Ataris to read and write to the same drives (typically a hard disk), access the same printer(s), and talk to each other. It is the first practical networking system for the Atari 8-bit computer.

One "master" computer (any 8-bit) is equipped with the master *Multiplexer* interface. Then up to 8 "slave" computers hook up to this master, each having their own slave interface. The slave interface consists of a cartridge that plugs into the cartridge port. It has its own socket on the top, so you can use whatever cartridges you desire with the system.

The "common" peripherals (things that are to be shared) are connected to the master. On each slave, all disk and printer I/O is routed through the master, so no extra disk drives are needed. The master computer can be configured in any manner you wish. You may have certain peripherals local to the slave, or routed to a different number on the master. Note that serial ports (R: RS232 interfaces) are not multiplexed.
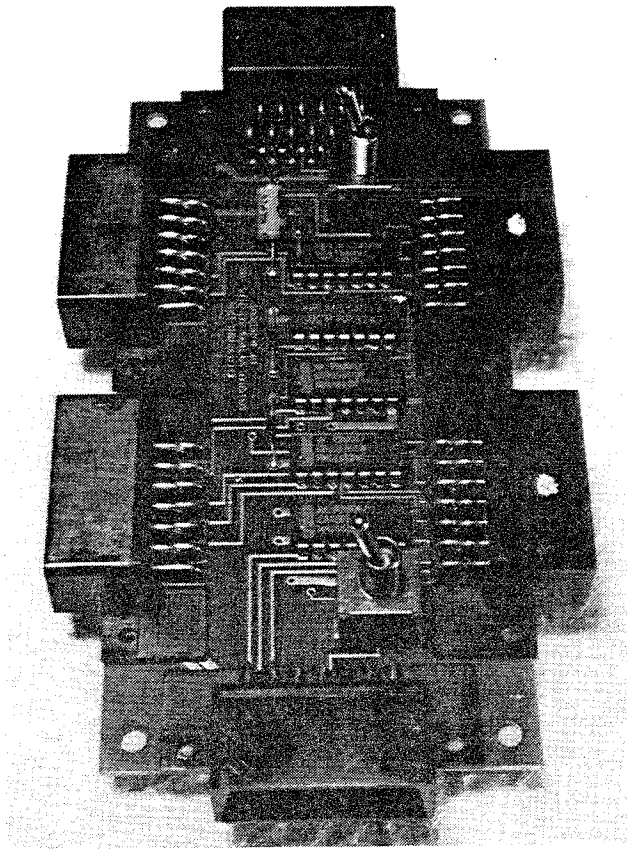
Under development is a BBS system that will make full use of this device, allowing up to 8 lines/users to be using the system at the same time! A multi–user chat mode is a feature of this BBS; however, you do not need this program to run a BBS with the *Multiplexer* (but be warned that not all BBS programs will run concurrently). All slaves are independent, and do not need to have the same program running on them. To see the *Multiplexer* at work, give our BBS a call!

This system is excellent for BBS SysOps; you can be using your hard disk(s) while still running your BBS uninterrupted.

Another example for its use is in a classroom situation, or anywhere a disk needs to be shared by many people. This is an excellent programming and debugging tool as well!

The Multiplexer sells for $149.95 for a master and two slave units with cable. Additional slave units are $49.95 each. Add $5 for shipping/handling.

The Quintopus

The *Quintopus* is a tremendously convenient device that eliminates the problems associated with the endless "daisy chaining" of peripherals (drives, interfaces, printers, etc.). The *Quintopus* is an I/O port expander that converts a single I/O port into five ports. Instead of daisy chaining all your peripherals (which often times results in passing a signal through 30 feet or more of cable), the *Quintopus* allows each device to be connected directly to the computer through only three or four feet of cable. This is particularly useful when attempting to use Ultra Speed data transfers. The *Quintopus* provides the extra I/O ports often needed to connect devices not having daisy chaining capabilities, such as the XM301 and SX212 modems. Cable resistance and capacitance are greatly reduced, thereby significantly improving the probability of accurate data transfers.

A deluxe version of the *Quintopus* has all of the standard *Quintopus'* features with the additional benefits of two switchable ports. This means you can switch between multiple combinations of peripherals or computers without the hassle of rearranging I/O cables.

The basic *Quintopus* is only $39.95, while the switchable port version sells for only $59.95. Add $5 for shipping/handling.

Hard drive systems

CSS offers complete, ready–to–run hard disk systems. These systems include a hard disk, *Black Box*, power supply, controller, cables, and software. Everything is tested and preformatted, so all you have to do is plug it in and run!

Many people ask, "Do I really need a hard drive?" The answer varies, but once you get used to the convenience of having all your most used programs in one place and the speed at which they load (about 15 times faster than most floppies), you'll wonder how you ever got along without it. BBS owners will appreciate the speed, as well as the wear and tear saved on their floppy drives. It is perfect for software developers, as you can speed assembly / compiling time, as well as keep all versions of your program stored safely away. Since the *Black Box* allows single density unprotected disks to be placed on the hard disk, the compatibility door is open even for DOSes that do not support hard disks.

A 10MB drive is a good size for a first time hard disk user. BBS SysOps will probably want more, depending on the BBS type and audience. Prices start as low as $399, but since the prices of drives vary, call for the latest prices and specials.

The Super Archiver

The *Super Archiver* is not just another 1050 double density high speed upgrade. Rather, it is the most powerful copying and disk editing tool available for the 8-bit computer! Copies of disks are exact duplicates of originals, eliminating the need for patches, PDB files, or extra computer hardware. The *Super Archiver* is the fastest non-buffered upgrade for the 1050 drive.

Once installed, your drive has the ability to perform in all three densities, reconfiguring automatically as needed. But unlike some upgrades, 100% compatibility is maintained, so you will be able to boot any disk regardless of the protection. The software provided enables sophisticated editing of single density disks.

Ultra Speed data transfer is fully implemented, so programs and hardware modifications supporting this will really take off. (Both the *Black Box* and the *UltraSpeed + OS* support this.)

The *Super Archiver* is fully compatible with the older Archiver for the 810 drive, but comes complete with more powerful software that makes use of the 1050's extended capabilities. You may use an Archiver 810 drive for two drive backups.

The *Super Archiver* software is more than just a backup program. It enables the user to actually edit each sector (with ML disassembly), modify the sector layout on each track, and create your own bad sectors and other forms of protection. The *Super Archiver* is the only modification that will reproduce "phantom" sectors. The software included will duplicate these automatically, as well as let you write your own. Extra memory is supported for single pass copies. Track skewing (aligning each track in a certain order) is supported, as well as automatic speed compensation required to write out long tracks.

Included on the disk are other useful utility and diagnostic programs. The *Mapper* allows tracing the loading of a program within the drive. The *Super Archiver* utilities are all designed with simplicity in mind, yet with enough power for your needs.

The only programs we know that cannot be duplicated are the newer Electronic Arts programs and Synapse Syn-series (34 full sectors/track). However, we do have a fix for this! (See the *Bit–Writer*.)

NOTE: Disks should only be copied to backup your original program disks! CSS in <u>no way</u> supports the misuse of this product as a pirating device.

The *Super Archiver* is only $69.95 plus $5 shipping/handling. Installation requires a few solder connections, and if you choose, we will install and test the upgrade at no charge.

The Super Archiver II

The *Super Archiver II* edits and copies all <u>enhanced density</u> programs plus retains all the features of our *Super Archiver*. This allows you to copy <u>or</u> create single or enhanced density protection schemes (including "phantom" sectors). It is completely automatic and compatible with the *Super Archiver*, giving you a truly powerful backup and programming device.
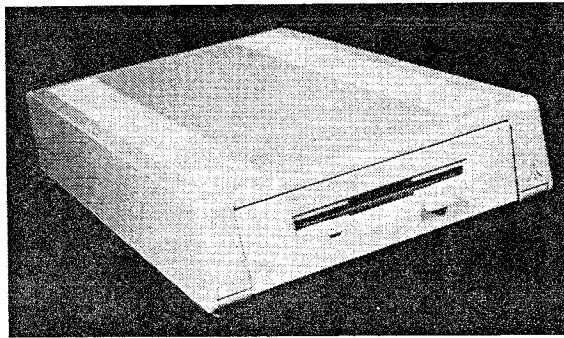
Minimal soldering required. Only $99.95 plus $5 shipping/handling. <u>NOTICE:</u> If you already own a *Super Archiver*, you may upgrade to a *Super Archiver II* for only $29.95 plus $5 shipping/handling. This is a software-only upgrade.

The Bit-Writer

The Super Archiver *Bit–Writer* is capable of duplicating even the "uncopyable" Electronic Arts and Synapse Syn–series, which employ 34 full sectors/track. These cannot be duplicated with the *Super Archiver*, as a standard floppy disk controller chip is simply not capable of writing what is necessary. The *Bit–Writer* is capable of reproducing these and future protection schemes of non-physically damaged disks, because it breaks down the data into bits, and writes them all out at once.

Installation into the 1050 drive includes plugging in a circuit board and making four solder connections. The *Super Archiver* with the *Bit–Writer* is the ultimate backup tool for the 1050 disk drive. The *Bit–Writer* must be used with the *Super Archiver.* Only $79.95 plus $5 shipping/handling. IMPORTANT: Please call or FAX for availability before ordering .
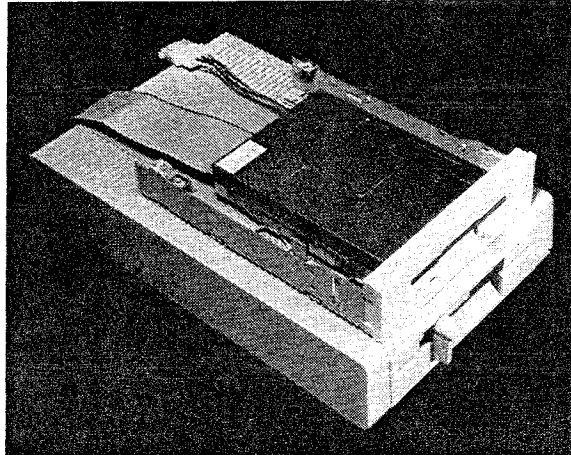
The XF Single Drive Upgrade

The *XF 3.5 inch Single Drive Upgrade* for your XF551 disk drive will double your storage space to 720kB by replacing your 5.25 inch 360kB floppy with a new 3.5 inch 720kB floppy disk drive. Not to be confused with public domain upgrades, our custom chip and brain module provide true Ultra Speed compatibility (extremely fast operation with compatible sector copiers and DOSes), and eliminate incompatibilities with software. The upgrade is designed so that it will work with a 5.25 inch drive, should you ever need to switch back to it.

Included in our kit is a high quality 3.5 inch floppy drive mounted in a 5.25 inch frame, so as to provide a perfect fit inside your XF551. Also included is a program which allows you to read IBM and Atari ST disks on your converted drive. Built in text translation is featured for easy porting of PC/ST text files into 8–bit word processors.

Minimal soldering is required for installation. As usual, CSS provides free installation for those unable to do it themselves.

The *XF551 Single Drive Upgrade* sells for only $99.95 plus $8 shipping/handling. If you already have a 3.5 inch drive to use, you may order the kit minus the 3.5 inch drive for $59.95 plus $5 shipping/handling.

The XF Dual Drive Upgrade

Our *XF Dual Drive Upgrade* has all the features of our *Single Drive Upgrade*, but allows you to have <u>both</u> your 5.25 inch 360kB floppy <u>and</u> a 3.5 inch 720kB floppy drive on your system. This is a totally switchless upgrade that turns one XF551 into two disk drives. Each drive acts separately, with the 3.5 inch drive assuming the next drive number higher than the 5.25 inch drive. You can copy between drives, even mixing densities!

Complete with a 3.5 inch drive, the *XF551 3.5 inch Dual Drive Upgrade* is only $139.95 plus $8 shipping/handling. If you already have a 3.5 inch drive, you may purchase the kit without the 3.5 inch drive for $89.95 plus $5 shipping/handling.

The XF551 Enhancer

The Atari XF551 disk drive was the first to use an industry standard drive mechanism and be capable of true double sided operation. This is fine for those who use its double sided double density mode, but many 810 and 1050 owners use the back sides of their disks by simply flipping the disk over and notching a write protect hole.

Since the XF uses the index hole on the disk (which the 810 and 1050 did not use), flipping a disk over and formatting it is not possible. The *XF551 Enhancer* provides a switch to put your XF551 into "1050 mode". This restores 100% compatibility with the 810/1050 for creating these "flippy" disks. In fact, you don't even have to notch the disk! A write protect disable is built-in.

The *XF551 Enhancer* sells for only $34.95 plus $5 shipping/handling.

<u>European customers:</u> please request the 50Hz version of the *XF551 Enhancer*.

XF Update

The *XF Update* is a completely new operating system for your XF551 disk drive that gives you many features you would expect to have had from the beginning.

The operating system for the drive has been completely rewritten so as to eliminate the problems and incompatibilities associated with the XF551 drive. The new operating system runs more commercial software, changes density properly, supports true Ultra Speed data transfer (actually, slightly faster than the 1050 Ultra Speed), and has an optimized interleave in high speed formats to produce the fastest possible operation. It is the upgrade every XF551 owner should have!

Installation requires only a few simple solder connections. The *XF Update* sells for only $39.95 plus $5 shipping and handling.

Power Plus memory upgrade ===== for 800XL, 65XE, and 130XE===

The *Power Plus* memory upgrade gives you a total of 256K of memory in an 800XL, or 320K in a 130XE. This extra memory may be used as a RAMdisk (capable of holding more than a full double density disk worth of data), as storage for making one pass disk copies (with compatible sector copiers), or as program storage (with products such as BASIC XE). CSS studied the various upgrades available, and has come up with what we believe to be the most compatible.

Since this is a major operation for most computers, installation is provided with the upgrade. You send us your computer, we will install and test the upgrade, then ship the computer back.

The *Power Plus* memory upgrade is only $99.95 plus $8 shipping/handling.

The Ultra Speed Plus OS

The Operating System that should be in every XL/XE computer! The *Ultra Speed Plus* puts unbelievable speed and convenience at your fingertips. After using it a while, you'll be spoiled! Charles Cherry in the April '89 *ANTIC* magazine reviewed, "Quite simply, if you don't have *Ultra Speed Plus*, you're using a crippled Atari."

Use any DOS to place *Ultra Speed* formats on your disks (with XF551 or modified 1050 drives), reading and writing at this speed with most programs. This high speed mode can be turned off for maximum compatibility. Built in RAMdisk handlers recognize any size (up to 2MB) XE–type memory upgrade. This RAM drive may be treated like a regular disk drive, capable of single or double density operation. Since the handlers are in ROM, most all programs (including sector copiers) see it. This opens up a whole new realm, as you can sector copy a disk into RAM, edit it, and even boot from it. A mini sector copier is built in for easy use.

A configuration menu is built-in, and may be used to re-map disk drives to respond to different drive numbers, and change the drive number of the RAMdisk.

The memory test routines have been rewritten, and test all of the available memory. If a problem is found, the offending bit is displayed. The diagnostic ROM bit on the PIA is not needed, so all bits are available for memory upgrade use.

Several key functions have been added: a cold start key (to allow rebooting from any lockup without losing the contents of your RAMdisk), disk I/O sound toggle, screen DMA disable (turn off the screen to increase processing time of slow programs!), internal BASIC toggle, keyboard lock, and screen color toggle. The OPTION key is reversed when booting, so you don't need to hold it to run machine language programs.

The *Ultra Speed Plus* module actually contains three operating systems: the *Ultra Speed Plus OS*, the standard XL/XE OS, and the *XL Fix Plus OS*. The *XL Fix Plus* is a 400/800 OS translator in ROM, so you won't have to boot a translator disk again! It has two modes of operation for maximum compatibility.

Four simple solder connections are required for installation if your machine has a socketed OS ROM. If the OS is not socketed, installation should be done by someone proficient in desoldering. As always, we provide free installation if you send us your computer. Only $69.95 plus $5 shipping/handling.

Power Supplies

We carry heavy duty power supplies for all XL and XE computers (except the 1200XL) that are capable of supplying twice the power of standard supplies. These are much more reliable and run cooler than the stock power packs, and supply the required power for heavily enhanced machines. Ready to be plugged in and used, they are only $17.95 plus $8 shipping/handling.

The Hard Drive Pro Backup

The *Hard Drive Pro Backup* is a truly useful utility for all hard drive owners. Because hard drives aren't perfect, it's always a good idea to keep a current backup of their contents. This program will allow you to save the contents of your hard disk to one or more floppy drives, or to another hard disk. This is the only 8-bit program of its type that supports multiple destination drives (saves time in feeding new disks), features data compression (to save on the number of disks needed), and works with both MYDOS and SpartaDOS.

You can backup only selected directories, only the files written since the last backup, or by date. High speed operation is supported with XF551 drives, modified 1050 drives, and Happy 810 drives. A printer log of all files backed up may be made. A special format is used to produce the absolutely fastest backup possible. Disk and full documentation is only $49.95 plus $5 shipping/handling.

The Super Pill

Our legendary cartridge backup device for 8kB and 16kB cartridges (not the bank selecting super cartridges made for the XE Game System). Store the contents of cartridges on disk, and run them from a menu program. Saves wear and tear on cartridges. Switchless module makes operation a snap! Only $24.95 plus $5 shipping/ handling.

The Richman's Word Processor

This 80 column software-only word processor is easy of use and includes all features needed in a word processor. Works best with a black & white TV or monochrome monitor. Its features include:

◊Completely menu driven
◊Self contained DOS
◊Complete text formatting
◊Built-in printer drivers
◊Page numbering
◊Justify and endfill
◊High speed cursor
◊Spell checker
◊Change screen colors, borders,
   and luminance

◊Insert and delete
◊Search mode
◊View–only mode
◊Memory statistics
◊Alternate output
◊80 columns on screen
◊Mouse compatible
◊XEP-80 compatible

The *Richman's 80 Column Word Processor* is only $39.95 plus $5 shipping/handling. This product is not for use with hard drives.

The Disk Cracker

This truly useful sector editor/copier is what we used at our offices for all our editing. In fact, the *Black Box Enhancer*'s editor was derived from this program.

The sector copier uses extra memory (if available) for single pass copies. Works with single and double density floppy disks. Automatic formatting and multiple copies supported.

The sector editor allows editing of both hex and ASCII data (even in internal code), as well as disassembly of the sector into 6502 machine code. Forward and backward linking and directory operations are supported for DOS II type disks.

A DOS II directory finder/scrambler is built in, as well as support for bad sector hardware such as the *Protector*. Only $19.95 plus $5 shipping/handling. This product is not for use with hard drives.

The Black Patch

Great for placing programs on hard disks, this program unprotects commercial programs, eliminating custom formats and bad sectors. Copies may then be sector copied.

Features built in sector copier supporting single pass copies on machines with XE–compatible memory. Over 400 patches come on the two data disks supplied. This product should be used ONLY to make personal backups! Only $29.95 plus $5 shipping/ handling.

SIO cables

You never know when you will need an SIO cable, and having extra SIO cables can get you out of some serious binds! We have lots of SIO cables in stock for $4.95 each. Quantity discounts available.

Hard Disk Controllers

We carry four types of hard disk controllers, for new systems or as replacements:

Adaptec 4000 SCSI	$ 89.95
Adaptec 4070 (RLL) SCSI	$124.95
Western Digital 1002SHD SASI	$ 59.95
Xebec S1410a SASI	$ 29.95 *new lower price!*

Installation and Repairs

Although installation of any of our products is easy, by taking advantage of our <u>free</u> installation offer, you can rest assured the job will be done right. All you pay is the return freight.

For repair of Atari 8–bit computers and disk drives at reasonable rates, contact our repair department at (716) 429–5639. All work is guaranteed, and there are no minimum estimate fees.

Dealer / User Group Discounts

We have a very flexible discount plan that makes it easy for you or your user group to attain dealer status. Purchase 12 or more items from this catalog, each with a retail value of $50 or greater, and you will be qualified as a dealer. This means you receive a 25–30% discount of all products we manufacture. This does not mean 12 pieces of the same item; you can mix and match!

Due to very slim profit margins, we cannot discount hard disk controllers, computers, and drives. Call for more information.

Used Software & Books

CSS also has a large inventory of pre-owned Atari 8-bit software and books, including all sorts of original Atari product manuals. Call for a list of current inventory.

CSS Product Price List*
(Effective March 1, 1994)

RTime 8	$ 49.95
Action!	$ 49.95
Basic XL	$ 49.95
Basic XE	$ 49.95
MAC/65	$ 49.95
Black Box	$199.95
Black Box with 64K printer buffer	$249.95
Black Box Case	$ 39.95
Black Box printer cable	$ 9.95
Black Box modem cable	$ 9.95
Floppy Board	$149.95
Black Box Enhancer	$ 49.95
Super E-Burner	$169.95
Gang Super E-Burner	$199.95
Multiplexer	$149.95
Multiplexer slave unit	$ 49.95 each
Quintopus	$ 39.95
Quintopus with switchable ports	$ 59.95
Hard Drive Systems	CALL
Super Archiver	$ 69.95
Super Archiver II	$ 99.95
Super Archiver --> SA II upgrade	$ 29.95
Bit-Writer	$ 79.95
XF Single Drive Upgrade	$ 99.95
XF Single Drive Upgrade (without drive mech)	$ 59.95
XF Dual Drive Upgrade	$139.95
XF Dual Drive Upgrade (without drive mech)	$ 89.95
XF551 Enhancer	$ 34.95
XF Update	$ 39.95
Power Plus Memory Upgrade	$ 99.95
UltraSpeed+ OS	$ 69.95
Power Supplies	$ 17.95
Hard Drive Pro Backup	$ 49.95
Super Pill	$ 24.95
Richman's Word Processor	$ 39.95
Disk Cracker	$ 19.95
Black Patch	$ 19.95
SIO cables	$ 4.95 each
Hard drive controllers	see listings

* Prices subject to change without notice, and do not include shipping & handling charges.

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