

the digital group^{INC.}

flyer number 14



- Video Graphics
- Business Software
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- Gobs of Software

FLYER NEWS

The Digital Group started out three short years ago as a small group of enthusiastic hobbyists dedicated to providing the best in hardware and software. Our idea caught on quickly and our little "cottage industry" endeavor burgeoned into a full-scale manufacturing enterprise. Unfortunately, our success was the reason for our recent setbacks.

The Digital Group grew quickly, and it became much more complex. We began to lose control. Some suppliers were able to meet their delivery schedules; many were not and several were months behind. This resulted in an accumulation of inventory in a condition known as "out of round" with key components missing. If you can't ship products, you can't generate enough cash reserves to operate at a given level; so you cut back to a sustainable level, regroup, and begin again.

As we looked at our problems, we were disturbed to discover that many of our customers considered us to be the Bad Guys. They were seeing the symptoms of our problems in lengthening lead-times, poorer service, and less response to their needs. It did us no good to rationalize that many of our problems were supplier related — We'd blown it. Well, enough! We didn't like where we were or what we appeared to have become, so we decided to change it. The easy thing to do (recommended by many) would be to simply give up and walk away from it. We are currently rejecting that approach and intend to keep rejecting it. There are over 3500 Digital Group system owners out there. We are determined to do everything possible to continue in operation, expand those systems with new capabilities, and to support our customers, particularly the individual.

In spite of our current problems, we sincerely believe that the Digital Group is a viable enterprise with some of the best products available to the serious computer hobbyist. We do not intend to let you down.

We are unable to pay the prior balances on accounts with our suppliers at this time; however, we have asked for their continued delivery support as well as rearrangement of the debt. Most suppliers are continuing to support us.

We have consolidated the company to a level that we know we can control.

Now we need to ask for your support. For the next 120 days, things are going to be pretty rough around the edges. But please be patient. There is a dedicated group of people who are doing their utmost to solve our problems and take care of your needs; and at the end of that time, the Digital Group will be providing the support and service you deserve. We have been and continue to be dedicated to the Enthusiast market and we're determined to continue to stay with the Enthusiast. Please read the details of our approach and if you agree with them we would appreciate your indulgence and your support.

Thank you,
The Digital Group, Inc.

Consolidation

Over the last six months we have dramatically reduced the number of Digital Group employees. We have found that with the right people we are able to produce as much or more with only one-third the personnel. However, as a result of the cutbacks, many items have been lost in the shuffle. If you have any open questions that you think may have been missed, we urge you to contact us again **by letter** and we'll try to correct the situation as rapidly as possible.

Products Dropped from the Line

We have eliminated the test equipment and the TVC-32. Other organizations are doing a better job in the test equipment area and demand for the TVC-32 is practically non-existent.

Refunds

Small refunds will be handled within our normal 30-day cycle. During this tight period we are forced to schedule large refunds (over \$250) over a substantial length of time. For the few of you in this category, if there is any way we can deliver a system or its equivalent it would be far quicker, and we think preferable, for both parties.

Phone Support Service

For the time being, we must reduce our level of phone support in order to concentrate on production and problem-solving. The new phone support hours are:

2:00 - 5:00 pm Mountain Daylight Time

Any support calls outside of these hours will be requested to call back during these hours. Support hours apply to order status, software support, and hardware repair.

In order to be fair and give others a chance, please try to limit your call to 5 minutes so as to allow others to get through. We realize that this policy places an extra burden on the customer at a very difficult time and we ask you to be patient. We hope to correct the situation as soon as possible.

Backlog

At our present rate of production we have approximately a 120 day backlog. The backlog for some items, cabinets in particular, is much longer. For those of you who have orders older than March, 1978 (7802-nnnn and lower), you will be receiving a letter during September for verification that you still wish the goods we have on backorder for you.

Bytemaster Status

We have been shipping Bytemasters for some time now and new orders are being filled within 45 days. There has been one substantial change. As many of you know, we originally specified the mini-floppy based Bytemasters with a dual-sided mini-floppy. Unfortunately, our suppliers are still unable to deliver dual-sided mini-floppies in other than sample quantities. We have been shipping single-sided mini-floppies as a result. OASIS is not currently available on Mini-floppies. Therefore, we are making available a Master-Ø which has no mass storage device built in and is set up for external standard 8" floppy disk drives for those who require more capacity in order to run OASIS.

Catalog

Yes, there is a catalog coming but it will be a while longer. The catalog was one of the items that had to be delayed while we concentrated on the company's major business. In the meantime, we will continue to send Flyers to those who requested a copy of the catalog.

Quick Orders

There is now a separate internal procedure for very quick filling of the following types of items on an order:

1. software
2. parts
3. media — disks, tapes, etc.
4. documentation only

By September 15, we should be filling new orders for the above item types within 1 week.

Repairs

There have been 2 major areas of difficulty on the repair side. Mechanisms in general and printers from Practical Automation.

1. Mechanisms:

The mechanism repair scenario is that they are covered by a manufacturer's warranty other than Digital Group. The manufacturer typically requires return of the mechanism for repair, which works out to 1 week to DG, 2 weeks at the distributor, 4 weeks at the factory, 2 weeks back at the distributor and 1 week more from us to you — best case. A total of 10 week or 2½ months. This situation has become intolerable. To remedy this situation, we now have trained personnel to repair, adjust, and align all mechanisms that we currently market. This should eliminate up to 2 months from mechanism turnaround.

2. Practical Automation Printer Mechanisms:

Due to our tight financial condition we have been unable to obtain any repair parts. Our solution is that we are now building (slowly) our own replacement parts and beginning to make some headway on the repair situation. We have recently begun to rebuild our relationship with PA and expect the situation to improve soon.

3. Standard board repair is currently running under 2 weeks for turnaround.

PLEASE NOTE: If you ship a mainframe back to us, PLEASE REMOVE THE POWER SUPPLY AND PACK IT SEPARATELY!

Marketing Methods

During this period, you will see less of us in print. We are restricting our advertising solely to the major publications. We will attend the following shows:

Personal Computing	Philadelphia	Aug. 24-27
PerComp	Chicago	Oct. 5-8
3rd West Coast Computer Faire	Los Angeles	Nov. 3-5

Of course Flyers will continue to be produced as needed.

Dealers

The Digital Group is severely restricting equipment availability through computer stores. We expect to have, at most, 10 stores by year end which carry our line. These stores will have demonstrated an ability to build and service our products as well as just take orders. These stores will be Factory Authorized Outlets (FAO's) and should be able to provide you with all the support you need.

At the current time there are 3 Factory Authorized Outlets:

Microworks
3014 Miami Road, Suite 205
Cincinnati, OH 45227
(513) 561-7315

Personal Computer Corporation
Frazer Mall
Routes 30 & 352
Frazer, PA 19355
(215) 647-8460

Triangle Product Distributors
5750 Lakeshore Drive
Holland, MI 49423
(616) 399-6390

There are also a number of current dealers who are under consideration for FAO's — we will keep you up to date.

Note: Other dealers may still carry the line until we are able to resolve our situation — we're usually the problem, not the dealer.

Market

The Micro-computer market and industry is continuing to change. Have you noticed how all the new announcements from our competition seem to be directed towards the small businessman? Industry publication after publication says forget the hobbyist — the real money is in the small business market". Or, "the hobby market is saturated", "the hobbyist is too much trouble and too difficult to deal with" . . .

Nonsense. We have always been overwhelmed with support (and orders) from Enthusiasts even in spite of all our own problems. The hobby market hasn't gone anywhere — its just that our competitors aren't using any imagination in coming up with new products.

We feel there are only a few requirements to satisfy the computer enthusiast:

- A very broad range of products
- Assembled and kit versions
- Reasonable prices — not whatever the market will bear
- Upgrade kits made available where possible
- Empty static memory boards for those who wish to use surplus IC's
- Top quality products
- Last, but not least, quality software shouldn't cost an arm and a leg.

How to Best Communicate with the Digital Group

We've set up a new customer service procedure. The best way to communicate with us currently is by mail. We would urge you to be as brief and concise as possible — lengthy letters take longer to answer.

If your letter can be answered without research on our part, it will be immediately answered. If research is required, you will be assigned a sequential customer service number, immediately sent a postcard acknowledging receipt of your letter, and we'll process your questions as quickly as possible.

The same procedures will also apply to phone support and, if research is required, your questions will be placed in the same queue as written inquiries.

Note: Even if you have recently sent us a letter please send a new copy or another one as a number of letters have been missed in the changeover.

SUPER GAMES — STANDALONE

Written In Machine Code

By Jamie Shrider
Lead Programmer
MicroWorks, Inc.

All games are standalone — written in Assembler and well documented. They require 26K and TVC-64.

STARWARS:

A high-speed, real time STAR WARS simulation. You are flying a Rebel ship above the surface of the DEATH STAR. Your mission is to pursue and destroy a TIE fighter with the aid of your targeting computer. You must avoid crashing into the DEATH STAR, running out of fuel, and running out of ammunition. This highly graphic game may be operated via keyboard.

SPCWAR:

A real time program containing three game options. The first involves flying a space ship from one side of the screen to the other through an oncoming meteor shower. The second is similar, except that the obstacle is a bi-directional asteroid belt. The third game involves destroying several enemy ships to save the Galaxy (similar to STAR TREK, but done in "arcade game" fashion). While playing this game, you are flying through space so you must avoid crashing into stars. On all three games, object density and speed may be set by the user.

UNSCML:

This program is a word game in which the user attempts to unscramble one of over 150 words presented by the program. The user must respond within a given number of seconds, or an overtime is registered. This time limit is set by the user for each word.

MNOPLY:

A fast moving game of Monopoly where two or three players compete against each other and optionally against the computer. Another option allows one player to compete against the computer.

LIFE/3:

A variation of John Conway's Game of Life. The program allows you to enter a pattern using a cursor entry system. Then the pattern is executed at one of ten speeds (including a frame freeze) which can be changed at any time during pattern execution. Output for each generation is two-phased: the first shows birth, death, and stability; the second shows only stability.

ELIZA:

A version of Joseph Weizenbaum's ELIZA:DOCTOR program. Now your computer can hold a reasonably coherent conversation with you via keyboard and TV. You type in a sentence, and Eliza replies on the screen. This program will also optionally output to a DG printer (rev A), so sessions may be saved on paper. Note: This version is NOT written in BASIC; thus, response time is virtually zero.

PRINT:

This program will generate a banner consisting of any one of four sizes of characters, using any one of three different print methods. The program can print any non-control ASCII character. Character shifting and proportional spacing have been included to enhance readability. The maximum message length is 132 characters.

Order Code	Description	Price
SUP-GAME-A	Supergames on Audio	\$25.00
SUP-GAME-S	Supergames on Standard Disk	30.00
SUP-GAME-M	Supergames on Mini Disk	30.00

STEPPER

STEPPER is a software machine code debugger which serves much the same purpose as a hardware front panel, but in a more comprehensive manner. At all times, the screen displays all CP registers and flags, the top twelve bytes of the stack, a 64 byte window of memory centered on the location indicated by the program counter register, and the mnemonic representation of the instruction indicated by the Program Counter. In STEPPER, options exist for

- Examining or modifying any register, flag, or memory byte
- Block moving any sized block of memory to any location
- Block filling any sized block of memory with any single byte
- Single-step executing any instruction
- Setting and removing a breakpoint
- Executing code from any point
- Setting input/output mode to ASCII, octal, or hex
- Relocating STEPPER anywhere in memory
- Disassembling any section of code at variable speeds
- Tracing program execution at variable speeds
- Dumping disassembly/trace information to a hardcopy device

STEPPER commands are all initiated by typing a single character. If additional information is required, the program will ask for it. Commands are broken down into four basic groups: Cursor Movement, Input/Output, Macro, and Executive.

STEPPER is compatible with DISKMON, PHIMON and Z80 OpSys.

Order Code	Description	Price
STEPPER	STEPPER Debugger	\$10.00

PUP

PUP stands for PHIMON Upgrade Program, and that's exactly what it does: it takes a PHIMON 1.0 tape and converts it to a PHIMON 2.0 tape. To use it, the suggested procedure is:

1. Power up with a PHIMON 1.0 tape
2. Type RE
3. Read in the Suding-format copy of PUP
4. Type ST 5000
5. Follow the instructions given by PUP

Once a PHIMON 2.0 tape has been created, more PHIMON 2.0 tapes may be created using the BU command (rather than going through the above procedure again).

Note: Running PUP will NOT destroy the directory of the PHIMON 1.0 tape.

PHIMON 2.0 Features:

HX command	Set I/O mode to hexadecimal (except on the DI command)
OC command	Set I/O mode to octal
RW command	Format: RW#n Will rewind drive #n. If n is not specified, a default to drive zero occurs.
BU command	Format: BU#n (any valid PHIMON command) Standard BU command except that if the apostrophe followed by a command is included, the system will execute that command upon power up.
LO command	Same as old LO, except that an @nnnn clause may be specified, where nnnn is a full octal or hex address (page & byte). Will perform an offset load into memory starting with the specified (nnnn) byte.

- DI command** Output format has been modified and a bug has been fixed (DI .EX did not work — see the PHIMON manual for more information about this function).
- ZE command** Now asks for tape length in order to fully utilize tapes. Valid lengths are 30, 45, 60, 90, and 120

True 64 character output has been implemented throughout PHIMON 2.0 and the upgraded version of PIP.

Several known tape-handling errors have been corrected (such as drive change timeout and overrun rewind).

Order Code	Description	Price
PUP-1	PHIMON Upgrade Tape	\$10.00

SARGON

A new chess program that is a very, very tough player indeed! Gives even experienced players a real challenge! Winner at 1978 Computer Faire.

Features:

- Up to 6 move look-head
- Multiple skill levels — user adjustable

Author — adapted by David Bryant

Order Code	Description	Price
SARGON	SARGON Chess	\$20.00

PHIMON/MAXI BASIC II RECORD SORTING SYSTEM

ASPEN COMPUTER SERVICE, INC., a Digital Group dealer and general service bureau, has developed a sorting system for a PHIMON system with 2 Phidecks with 34K memory and up.

The system provides you with the following features:

- Sorts up to 5 different fields with up to 256 characters in any one field at one time.
- Sorts both numerical and alphabetical data at one time.
- Sorts your fields into ascending or descending order with each field's sequence being defined separately.
- Restarts, if necessary*, are handled without having to start over from the beginning.
*(Could be caused by running out of space on a tape.)
- The program automatically checks your memory size for 34K, 42K, 50K, or 64K and takes maximum advantage of your memory size which means the more memory you have the less time it will take to complete your sort.

Now you can sort into your desired sequence all those records you are writing with MAXI-BASIC, version 2.

As a purchaser of any ACS/DG software system you are entitled to 1) receive updated versions of the system which may be released in the future in order to make minor enhancements, and 2) to use the ACS call-in service for assistance in running your system. You will receive an ACS Registration Form with your ID number on it to fill out and send in to ACS to be eligible for these two services.

Order Code	Description	Price
SORT-MB2	PHIMON/MAXI-BASIC II Sort System	\$27.50

DISK MAXI-BASIC II

Disk-based MAXI-BASIC II supports programs and files on mini and standard disks. Runs under DISKMON (prerequisite).

Features:

- Random access data files
- In-place updating
- Program chaining

- Line Editor
- Delete files capability
- Upwards compatible from audio and Phideck versions

Order Code	Description	Price
DMAXI-S	Disk MAXI 2 — Standard Disk	\$25.00
DMAXI-M	Disk MAXI 2 — Mini Disk	25.00

DISK BUSINESS BASIC

A new disk-based version of Business BASIC. Very powerful and quite quick!

- Compatible with Business BASIC
- Supports both Phidecks and disks
- Interfaces with DISKMON

Order Code	Description	Price
DBUS-1-S	Business BASIC — Standard Disks	\$35.00
DBUS-1-M	Business BASIC — Mini Disks	35.00

DISK ASSEMBLER II

Identical to former Audio Assembler II with the addition of disk support for mini and standard disks. Saves and retrieves files on disk.

Order Code	Description	Price
DASSM-2-S	Assembler 2-Standard Disk	\$25.00
DASSM-2-M	Assembler 2-Mini Disk	25.00

ASSEMBLER II EDITOR

A standalone editor for Assembler II - both audio and disk versions.

Order Code	Description	Price
ASSM2-ED-A	Assembler 2 Editor-Audio	\$12.50
ASSM2-ED-S	Assembler 2 Editor-Standard Disk	15.00
ASSM2-ED-M	Assembler 2 Editor-Mini Disk	15.00

OASIS UPDATE

Update to OASIS - OASIS 4.1

- Script is available
- Dynamic memories are supported
- Mini-disk and Phidecks are not yet supported

All purchasers of OASIS who sent in their registration form will receive 4.1 automatically without charge.

APL/Z80

APL/Z80 is an APL interpreter for Z80 microcomputers. APL/Z80 extends to APL applications the cost effectiveness of personal computers while it's power compares favorably with large time sharing APL systems for many applications. Nearly all primitive APL functions & operators are implemented. Those primitives not present are easily implemented as defined APL functions. APL/Z80 supports the APL character set on the Digital GroupPrinter (PT96) and has last line retrieval and a character editor for user convenience. Send for a detailed fact sheet. Product availability Sept. 15, 1978.

Order Code	Description	Price
APL-S	APL on Standard Disk	\$300.00
APL-M	APL on Mini Disk	300.00

ASPEN COMPUTER SERVICE

Business Applications

ASPEN COMPUTER SERVICE, INC., a Digital Group, Inc. dealer and general service bureau in Aspen, Colorado, developed this system to use in their service bureau. The systems use a minimum of 34K or 42K memory, the PHIMON operating system and 2 or 3 Phidecks. These professionally designed and programmed software packages are supported by ASPEN COMPUTER SERVICE through their call-in service. As a purchaser of any ACS/DG Business Application you are entitled to: 1) receive updated versions of the system which may be released in the future in order to make minor enhancements and correct problems; and 2) to use the ACS call-in service for assistance in running your system. The ownership of the systems must be registered with ACS to receive the free update and call-in service.

NOTE: The full features of the systems can't be properly described in the flyer. Send a specific request for more information.

General Ledger System Ver 1.0

The system was professionally designed for flexibility and ease of use. The following functions are the highlights:

- Up to 4 digit account numbers (user defined)
- Up to 99 departments within 9 stores to create individual as well as consolidated statements
- 3 income statement formats
 - Standard: Shows current and year-to-date amounts as well as percent of income calculation
 - Budgeted: Shows forecasted budget amount for current and year-to-date with percent of plan calculation
 - Comparative: Same as "Budgeted" except it uses the data from the previous year
- Report formatting includes the following user options
 - Account descriptions
 - Titles and spacing
 - 9 totaling levels
 - Disclaimer message
- Posting of repetitive fixed entries (ex.: depreciation)
- Comprehensive audit trails
- Pre-posting editor is provided
- Entry of a debit and credit of the same amount is done without re-entry of the reference number or the description
- Entry procedure allows the one-key duplication of reference, date and description from the previous entry
- Selected detailed General Ledger Accounts can be printed
- Supports up to 300 accounts

Order Code	Description	Price
ACS-GL	Aspen Computer Service — General Ledger	\$295.00

Accounts Receivable Ver 1.0

The system was professionally designed for flexibility and ease of use. The following functions are the highlights:

- Check digit on account number
- Hourly charging as well as item charging
- 30/60/90 day aging analysis
- Detail listing for credit management
- Statements contain the due date and are aged
- Reports by transaction type, employee number description code, and description code within employee number
- Selective collection message
- 10 x 10 rate table for making hourly charge calculations
- Entry program allows editing prior to entry
- Account amounts and hours may be retrieved at any time

Order Code	Description	Price
ASC-AR	Aspen Computer Service — Accounts Receivable	\$295.00

Payroll Ver 1.0

The system was professionally designed for flexibility and ease of use. The following functions are the highlights:

- Supports up to 800 employees
- Supports up to 50 departments
- One check can be distributed to as many as 6 departments
- One employee can work at up to 6 different pay rates
- Special functions support
 - Non-FICA
 - TIP accounting
 - Meal allowance accounting
 - Employee loan repayment
- Up to 3 fixed deductions (ex.: health insurance)
- Up to 365 pay periods per year
- Hourly history for normal and overtime is maintained
- Federal withholding
- State withholding (Colorado Method)*
- Last name alpha sequence is maintained
- Prints quarterly 941 and W2 forms
- Prints payroll registers

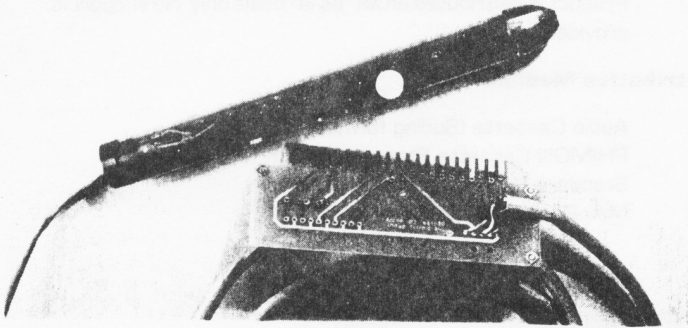
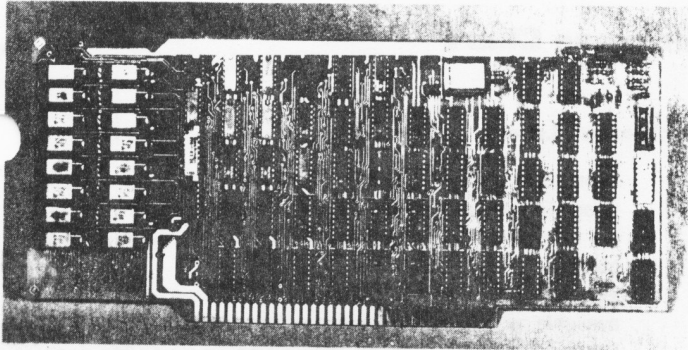
* ACS will write a tailored routine for a fixed fee.

Order Code	Description	Price
ACS-PAY	Aspen Computer Service — Payroll	\$295.00

Prerequisites:

All systems require a Digital Group computer with 64 character TVC, PHIMON operating system and MAXI-BASIC II language. Following are the other requirements:

	Memory	# of Phidecks
General Ledger	34K	2
General Ledger with budgeted and comparative options	42K	2
Accounts Receivable	42K	3
Payroll	34K	3



THE DIGITAL GROUP HIGH RESOLUTION GRAPHICS DISPLAY AND LIGHT PEN

The Digital Group introduces our High Resolution Graphics Display board with Light Pen. This is NOT a coarse, low resolution display for drawing crude pictures but a true high resolution graphics interface with 256 display points on each of 256 raster scan lines (approximately 230 lines are visible without TV monitor adjustment), providing the Digital Group system user with graphics power sufficient to plot detailed charts and graphs, draw pictures or sketches, create intricate game boards, or run space-war simulations. The possibilities are limited only by your imagination!

Utilizing a memory mapping technique, the Digital Group High Resolution Graphics Display does not use up RAM already dedicated to your CPU because it contains its own on-board 8K byte memory. In fact, the on-board memory is seen by the processor as another 8K RAM board and can often be used for additional program memory when graphics operation is not desired. A separate board disable line is available to selectively enable the board under software control, allowing overlap with memory you already have (the display is continuous — only CPU access is disabled). This effectively gives 72K of available memory.

The Digital Group Light Pen functions with the High Resolution Graphics Display under software control to allow the user to precisely indicate points on the screen. Our Light Pen will allow you to do more than indicate a character or line on the display — it actually gives the ability to draw detailed pictures by PRECISELY knowing its position.

A video mixer circuit and external sync lines are provided in order to synchronize the display with your TV readout board. Either TV readout or graphics may be selected manually or under software control, or they may be superimposed for writing captions on charts and graphs, messages on game displays, or monitoring the operation of your program. The video output is compatible with a TV monitor.

Features

- 256 x 256 point display area
- Plotting speed — as fast as you can write memory
- 8K bytes of memory on-board
- On-board memory usable for some programs if desired
- External sync inputs for TV readout board
- Internal sync outputs for future expansion
- Video mixer selects TV readout, graphics or superimposes both
- Screen "invert" line for white-on-black or black-on-white display
- Light Pen with one dot resolution
- Light Pen speed = 60 dots/second
- Interactive graphics with Light Pen
- Board enable line for memory overlap

Requirements

- Power: +5V @ 1.5A, +12V @ .3A, and - 5V @5mA
- Video Monitor
- One output port to command board options
- One input port to accept Light Pen data and board status

Included Software:

- Locate Light Pen
- Draw with Light Pen
- Set, reset, and test dot on screen. These may be called from MAXI-BASIC or any Assembler program for plotting points.

PLEASE NOTE: Software capability initially provided is **very** limited — more software will be available at a later time.

Order Code	Description	Kit	Assem.
GRAPH-256	High Resolution Graphics with Light Pen	\$295.00	\$395.00

MEMORY-CHECKER ROM

This special test ROM does a standalone memory check on power-up. Very convenient for testing entire memory in system. Replaces 1702 on CPU card.

Order Code	Description	Price
1702-MEM	Memory Checker ROM	\$25.00

OEM 1

The OEM-1 System is in response to the most popular configuration request we have received from our small-business oriented customers. It's features include a 34K Bytemaster \emptyset with dual standard floppy drives and the Centronics Printer. The components are MASTER- \emptyset , DSS-COMP2 and PT-TRAC1.

Order Code	Description	Assembled
DG-SYSOEM1	OEM1 System	\$5,295.00

MASTER- \emptyset

The MASTER- \emptyset provides the advanced look in packaging without limiting the input/output to minidisk or digital tape. The MASTER- \emptyset is similar to the other Bytemaster models with either 18K or 34K of memory but without any internal peripheral data storage devices.

Order Code	Description	Kit	Assembled
MASTER- \emptyset -A	18K MASTER- \emptyset	\$1,745.00	\$2,175.00
MASTER- \emptyset -B	34K MASTER- \emptyset	2,045.00	2,525.00

Digital Group Software Reference Chart

Required Operating System or Language

Z-80	Z-80 OP/System. May be included as part of the distributed package.
PHIMON	PHIMON Cassette Storage System required to run this program. PHIMON is not distributed with this program.
DISKMON	DISKMON System required to run this program. DISKMON is not distributed with the program.
None	Program runs stand-alone.

Minimum Memory Configuration

Specifies the total recommended memory size necessary to run the program (including the operating system, if required).

Hardware Support

32/64 TVC	Indicates if the program supports or runs with 32 and/or 64 character displays.
Audio Cassette	Indicates if the program has capability of storing data on audio files.
Phideck	Indicates if the program has capability of storing data on Phideck tape files.
Printer	Indicates if printer output is supported.
Disk	Indicates if disk storage is supported.

Maintenance Level

1	Product is fully supported and maintained by Digital Group. Periodically, new versions or updates to programs will be released. Each release is provided at an additional charge.
2	Product is maintained by Digital Group. Fixes will be made available on request, but new versions will not be provided.
3	Product is maintained by the original author. Any fixes provided to Digital Group will be made available on request.
4	Product is distributed on an "as is" basis only. No support is provided.

Distribution Medium

A	Audio Cassette (Suding format - 1100 baud)
P	PHIMON Cassette Storage System format
DS	Standard Floppy disk system format
DM	Mini Floppy disk system format

Product Code	Required OP Sys or Language	Min. Memory Config.	HARDWARE SUPPORT							Std. Disk	Maint. Level	Distr. Medium
			32 TVC	64 TVC	Audio Cassette	Phideck	Printer PT-96	Printer PT-TRAC1	Mini Disk			
Oper. Systems												
OASIS	—	32K	N	Y	N	N	Y	Y	N	Y	1	DS
MCOS	—	26K	N	Y	Y	N	Y	Y	N	Y	3	DS
PHIMON	—	10K	Y	Y	Y	Y	N	N	N	N	1	A, P
Z80 OPSYS ²	—	2K	Y	Y	Y	N	N	N	N	N	1	A
DISKMON ²	—	18K	Y	Y	Y	Y	N	Y	Y	Y	1	DS, DM
Languages												
APL-S	—	32K	N	Y	N	N	Y	N	N	N	3	DS
APL-M	—	32K	N	Y	N	N	Y	N	N	N	3	DM
ASSM II	Z80	18K	Y	Y	Y	N	Y	Y	N	N	1	A
ASSM-ED-A	Z80	18K	N	Y	Y	N	Y	Y	Y	Y	3	A
ASSM-ED-S	DISKMON	18K	N	Y	Y	Y	Y	Y	Y	Y	3	DS
ASSM-ED-M	DISKMON	18K	N	Y	Y	Y	Y	Y	Y	Y	3	DM
BUS-1	PHIMON	26K	N	Y	N	Y	Y	N	N	N	1	A
C-BASIC	MCOS	32K	N	Y	N	N	Y	Y	N	Y	3	DS
CONVERS	PHIMON	26K	Y	Y	N	Y	Y	N	N	N	3	A, P
DASSM-2-S	DISKMON	18K	N	Y	Y	Y	Y	Y	Y	Y	1	DS
DASSM-2-M	DISKMON	18K	N	Y	Y	Y	Y	Y	Y	Y	1	DM
DBUS-1-S	DISKMON	26K	N	Y	N	Y	Y	Y	Y	Y	1	DS
DBUS-1-M	DISKMON	26K	N	Y	N	Y	Y	Y	Y	Y	1	DM
DMAXI-S	DISKMON	18K	N	Y	Y	Y	Y	Y	Y	Y	1	DS
DMAXI-M	DISKMON	18K	N	Y	Y	Y	Y	Y	Y	Y	1	DM
E-BASIC	MCOS	26K	N	Y	N	N	Y	Y	N	Y	3	DS
MAXI-BASIC	Z-80	18K	Y	Y	Y	Y	Y	Y	N	N	2	A, P
MCOS-ASSM	MCOS	32K	N	Y	N	N	Y	N	N	Y	3	DS
MIN-BASIC	none	8K	Y	Y	Y	N	N	N	N	N	4	A
OASIS-ASSM	OASIS	32K	N	Y	N	N	Y	Y	N	Y	1	DS
O-BASIC	OASIS	40K	N	Y	N	N	Y	Y	N	Y	1	DS
OPUS-1-S	none	26K	N	Y	N	Y	Y	N	N	Y	3	DS
OPUS-1-P	none	26K	N	Y	N	Y	Y	N	N	Y	3	P
OPUS-2-S	none	26K	N	Y	N	Y	Y	N	N	Y	3	DS
OPUS-2-P	none	26K	N	Y	N	Y	Y	N	N	Y	3	P
TBX-TVCOS	none	8K	Y	Y	Y	N	N	N	N	N	4	A

Digital Group Software Reference Chart (cont.)

Product Code	Required OP Sys or Language	Min. Memory Config.	HARDWARE SUPPORT								Maint. Level	Distr. Medium	
			32 TVC	64 TVC	Audio Cassette	Phideck	Printer PT-96	Printer PT-TRAC1	Mini Disk	Std. Disk			
Applications													
Word Processing													
WOPROC-1	PHIMON, Z-80	18K	N	Y	Y	Y	Y	Y	Y	N	N	1	A
Business													
ACS-AR	MAXI-2	42K	N	Y	N	Y	Y	Y	Y	N	N	3	P
ACS-GL	MAXI-2	34K	N	Y	N	Y	Y	Y	Y	N	N	3	P
ACS-PAY	MAXI-2	34K	N	Y	N	Y	Y	Y	Y	N	N	3	P
BUS-100	none	8K	Y	Y	Y	N	N	N	N	N	N	3	A
Text Editing													
ED-FQRM	Z-80	8K	Y	Y	Y	N	Y	Y	Y	N	N	3	A
MCOS-TOP	MCOS	32K	N	Y	N	N	Y	Y	Y	N	Y	3	DS
SCRIPT	OASIS	32K	N	Y	N	N	Y	Y	Y	N	Y	1	DS
TEXT-ED1	Z-80	8K	Y	Y	Y	N	Y	Y	Y	N	N	4	A
Programmer Aids													
ASSM-ED-A	none	18K	N	Y	Y	N	Y	Y	Y	N	N	3	A
ASSM-ED-S	DISKMON	18K	N	Y	Y	N	Y	Y	Y	Y	Y	3	DS
ASSM-ED-M	DISKMON	18K	N	Y	Y	N	Y	Y	Y	Y	Y	3	DM
DISASSM2	Z-80	8K	N	Y	Y	N	Y	Y	Y	N	N	3	A
ED-Z80	none	8K	Y	Y	N	N	N	N	N	N	N	3	A
MCOS-UTIL	MCOS	32K	N	Y	Y	N	Y	Y	Y	N	Y	3	DS
PUP-1	PHIMON	10K	N	Y	N	Y	N	N	N	N	N	3	P
SORT-MB2	MAXI-2	26K	N	Y	N	Y	N	N	N	N	N	3	P
STEPPER	none	5K	N	Y	Y	N	N	N	N	N	N	3	A
Z80-RELO	none	8K	Y	Y	Y	N	N	N	N	N	N	3	A
Games													
GALAXY	none	8K	Y	Y	—	—	—	—	—	—	—	3	A
KING1	none	8K	Y	Y	—	—	—	—	—	—	—	3	A
MB-GS1-9	MAXI-2	18K	Y	Y	—	—	—	—	—	—	—	3	A
MCOS-GAMES	MCOS	32K	N	Y	—	—	—	—	—	—	—	3	DS
MICRO-CH	Z-80	8K	N	Y	—	—	—	—	—	—	—	3	A
MINB-GS1	MIN-BASIC	8K	Y	Y	—	—	—	—	—	—	—	3	A
TBX-GS1-6	TBX-TVCOS	8K	Y	Y	—	—	—	—	—	—	—	3	A
SUP-GAME-A	none	26K	N	Y	—	—	—	—	—	—	—	3	A
SUP-GAME-S	none	26K	N	Y	—	—	—	—	—	—	—	3	DS
SUP-GAME-M	none	26K	N	Y	—	—	—	—	—	—	—	3	DM
SARGON	none	18K	Y	Y	—	—	—	—	—	—	—	3	A
Z80-LUNAR	Z-80	8K	N	Y	—	—	—	—	—	—	—	3	A
Other													
AMR-1	Z-80	8K	Y	Y	—	—	—	—	—	—	—	3	A
CODE-PRAC	Z-80	2K	Y	Y	—	—	—	—	—	—	—	3	A
VOT1-3	Z-80	8K	Y	Y	—	—	—	—	—	—	—	2	A
3PACK-1	Z-80	2K	Y	Y	—	—	—	—	—	—	—	3	A

Product	Year	OS	Platform	Language	Category	Price	Notes
ACORN	1987	MS-DOS	PC	Basic	Education	150	
ACORN	1988	MS-DOS	PC	Basic	Education	200	
ACORN	1989	MS-DOS	PC	Basic	Education	250	
ACORN	1990	MS-DOS	PC	Basic	Education	300	
ACORN	1991	MS-DOS	PC	Basic	Education	350	
ACORN	1992	MS-DOS	PC	Basic	Education	400	
ACORN	1993	MS-DOS	PC	Basic	Education	450	
ACORN	1994	MS-DOS	PC	Basic	Education	500	
ACORN	1995	MS-DOS	PC	Basic	Education	550	
ACORN	1996	MS-DOS	PC	Basic	Education	600	
ACORN	1997	MS-DOS	PC	Basic	Education	650	
ACORN	1998	MS-DOS	PC	Basic	Education	700	
ACORN	1999	MS-DOS	PC	Basic	Education	750	
ACORN	2000	MS-DOS	PC	Basic	Education	800	
ACORN	2001	MS-DOS	PC	Basic	Education	850	
ACORN	2002	MS-DOS	PC	Basic	Education	900	
ACORN	2003	MS-DOS	PC	Basic	Education	950	
ACORN	2004	MS-DOS	PC	Basic	Education	1000	
ACORN	2005	MS-DOS	PC	Basic	Education	1050	
ACORN	2006	MS-DOS	PC	Basic	Education	1100	
ACORN	2007	MS-DOS	PC	Basic	Education	1150	
ACORN	2008	MS-DOS	PC	Basic	Education	1200	
ACORN	2009	MS-DOS	PC	Basic	Education	1250	
ACORN	2010	MS-DOS	PC	Basic	Education	1300	
ACORN	2011	MS-DOS	PC	Basic	Education	1350	
ACORN	2012	MS-DOS	PC	Basic	Education	1400	
ACORN	2013	MS-DOS	PC	Basic	Education	1450	
ACORN	2014	MS-DOS	PC	Basic	Education	1500	
ACORN	2015	MS-DOS	PC	Basic	Education	1550	
ACORN	2016	MS-DOS	PC	Basic	Education	1600	
ACORN	2017	MS-DOS	PC	Basic	Education	1650	
ACORN	2018	MS-DOS	PC	Basic	Education	1700	
ACORN	2019	MS-DOS	PC	Basic	Education	1750	
ACORN	2020	MS-DOS	PC	Basic	Education	1800	
ACORN	2021	MS-DOS	PC	Basic	Education	1850	
ACORN	2022	MS-DOS	PC	Basic	Education	1900	
ACORN	2023	MS-DOS	PC	Basic	Education	1950	
ACORN	2024	MS-DOS	PC	Basic	Education	2000	
ACORN	2025	MS-DOS	PC	Basic	Education	2050	
ACORN	2026	MS-DOS	PC	Basic	Education	2100	
ACORN	2027	MS-DOS	PC	Basic	Education	2150	
ACORN	2028	MS-DOS	PC	Basic	Education	2200	
ACORN	2029	MS-DOS	PC	Basic	Education	2250	
ACORN	2030	MS-DOS	PC	Basic	Education	2300	

**THE FOLLOWING TWO PAGES CONTAIN OUR
CURRENT PRICE LIST.**

**THIS PRICE LIST SHOULD BE REFERRED TO
WHEN PLACING AN ORDER.**

Complete Product Line Price List

New Prices effective August 15, 1978. Prices subject to change without notice. Refer to previous flyers for a more complete description.

Description **Order Code** **Kit Price** **Assembled Price** **Wt.**

SERIES 4 — BYTEMASTER

All systems in the SERIES 4 line include Z-80 CPU, 64 character video, built in data monitor, keyboard & yoke cabinet, plus provisions for attachment of additional storage devices and a printer.

18K Total memory, no internal storage, set up for standard disks. DISKMON	MASTER-0-A	1,745.00	2,175.00	60
34K Total memory, no internal storage set up for standard disks. DISKMON	MASTER-0-B	2,045.00	2,525.00	60
18K Total memory, Phideck storage, PHIMON	MASTER-1	1,995.00	2,495.00	65
32K Total memory, Phideck storage, PHIMON	MASTER-2	2,345.00	2,845.00	65
18K Total memory, Mini Floppy storage, DISKMON	MASTER-3	2,395.00	2,895.00	65
32K Total memory, Mini Floppy storage, DISKMON	MASTER-4	2,695.00	3,245.00	65

SERIES 3 — SYSTEMS

A system in the SERIES 3 line can be ordered as a kit or a completely assembled, integrated and tested unit.

All systems include the monitor and keyboard.

System 1 MAIN-2, Z80-OPSYS	DG-SYS1A	1,695.00	1,995.00	54
System 2 MAIN-2, 2 Phidecks Tape EROM, PHIMON	DG-SYS2A	2,295.00	2,775.00	79
System 3 MAIN-2, 2 Mini Floppies, Disk EROM, DISKMON	DG-SYS3A	2,875.00	3,495.00	95
System 4 MAIN-3, 2 Mini Floppies, Printer, Disk EROM, DISKMON	DG-SYS4A	3,875.00	4,675.00	112
Development 1 MAIN-3, 2 Phidecks, 2 Standard Floppies, Printer, Disk EROM, DISKMON	DG-SYS5A	4,745.00	5,795.00	131
Computational 1 MAIN-5, 2 Phidecks Tape EROM, PHIMON	DG-SYS6A	3,145.00	3,775.00	73
Ham System 1 MAIN-2, 8 additional I/O ports, Ham-board, Software (MAXI BASIC and ASSM II), (No monitor)	DG-SYSHAM	1,695.00	2,195.00	59

SERIES 2 — COMPONENTS

Mainframes
All Mainframe components in the SERIES 2 line include the Z80 CPU, 64 character video, four 8-bit input ports, four 8-bit output ports, standard motherboard, 12 amp power supply, dress cabinet, assembled dynamic memory, audio load PROM, and standard wiring.

Mainframe 1, 10K Total memory	MAIN-1	1,095.00	1,475.00	52
Mainframe 2, 18K Total memory	MAIN-2	1,295.00	1,675.00	54
Mainframe 3, 34K Total memory	MAIN-3	1,595.00	1,995.00	54
Mainframe 4, 50K Total memory	MAIN-4	1,945.00	2,395.00	54
Mainframe 5, 64K Total memory	MAIN-5	2,245.00	2,695.00	54

Peripherals

All Peripheral components in the SERIES 2 line include the interface card for the Digital Group mainframe, the device(s), the interface cables, power supplies and cabinets to make the components functional.

Keyboard — Capacitance with numeric pad	KEY1-COMP	NA	245.00	10
9" Data Monitor	MON9D-COMP	NA	249.50	23
9" Data Monitor plus SYNC separator	MON9D-CP-S	NA	269.50	23
9" Monitor	MON9-COMP	NA	249.50	23
96 column printer	PT96-COMP	675.00	795.00	23
Tractor-feed Printer	PT-TRAC1	NA	1,295.00	70
Phideck — 2 drives	PHI2-COMP	545.00	675.00	19
Phideck — 4 drives	PHI4-COMP	845.00	995.00	25
Mini Floppy — 1 drive	DSM-COMP1	795.00	975.00	21
Mini Floppy — 2 drives	DSM-COMP2	1,195.00	1,395.00	35
Standard Floppy — 1 drive	DSS-COMP1	995.00	1,195.00	21
Standard Floppy — 2 drives	DSS-COMP2	1,575.00	1,795.00	35

SERIES 1 — UNITS

System Packages

Three board system with Z80-CPU, IO-F, TVC-64 and MB-2 (2K Total memory)
Four board system with Z80-CPU, IO-F, TVC-64, MEM-8C, and MB-2 (10K Total memory)

System Package Options

Substitute 8080 CPU
Substitute 6800 CPU
Substitute 6502 CPU

Processor Cards

Z80-CPU with 2K RAM & EPROM bootstrap loader (Audio)
8080-CPU with 2K RAM & EPROM bootstrap loader (Audio)
6800-CPU with 2K RAM & EPROM bootstrap loader (Audio)
6502-CPU with 2K RAM & EPROM bootstrap loader (Audio)

Z80-38DA	495.00	595.00	8
Z80-48DA	695.00	895.00	10
8080-SUB	NC	NC	2
6800-SUB	NC	NC	2
6502-SUB	NC	NC	2
Z80-CPU	295.00	345.00	2
8080-CPU	295.00	345.00	2
6800-CPU	295.00	345.00	2
6502-CPU	295.00	345.00	2

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Description	Order Code	Kit Price	Assembled Price	Wt.	Description	Order Code	Kit Price	Assembled Price	Wt.
Memory Cards									
1702A 4K EPROM board with 4K 1702A's (unprogrammed)	1702-F	299.00	345.00	2	Standard Floppy cable pack — up to 2 drives	DSS-CBLPK2	NA	49.50	5
1702A 4K EPROM board without 1702A's	1702-0	75.00	NA	2	Standard Floppy cable pack — up to 4 drives	DSS-CBLPK4	NA	84.50	3
8K memory board using high speed low power 2102's	MEM-8C	225.00	275.00	2	CPU Connector Set — five 22-pin Dual, 3 PAD-STD, 2 PAD-PROT	22-CONNS	54.50	NA	2
16K memory board using 4K statics (TMS4044 or equiv.)	MEM-16	445.00	NA	2	Accessories - Boards				
16K memory board using 4K dynamics (MEM-16D)	MEM-16D	NA	375.00	2	Extender boards — complete set	EXT-3	55.00	75.00	3
32K memory board using 4K statics (TMS4044 or equiv.)	MEM-32	845.00	945.00	2	Mini motherboard — holds 1 CPU, 1 TVC, 1 Memory, and 1 I/O cards	MB-1	30.00	NA	3
32K memory board using 4K dynamics (MEM-32D)	MEM-32D	NA	695.00	2	Standard motherboard — holds 1 CPU, 1 TVC, 3 Memory, and 4 I/O cards	MB-2	45.00	NA	1
8K memory board (MEM-8C) without chips	MEM-0	60.00	NA	2	Memory expansion — adds 5 memory slots	MB-3	29.50	NA	1
32K memory board (MEM-32) without chips	MEM32-0	60.00	NA	2	I/O expansions — adds 10 I/O slots	MB-4	45.00	NA	1
Peripheral Cards					1702A ROM board with connector	1702-PCC	35.00	NA	1
Communications interface with parts for one I/O channel	COMM-1	95.00	NA	2	I/O card with connectors	IO-PCC	47.50	NA	1
Communications interface with four I/O channels	COMM-4	145.00	195.00	2	Memory prototyping card with connectors	PROT-IOC	39.50	NA	1
High Resolution Graphics	GRAPH-2	295.00	395.00	2	Memory prototyping card with connector	PROT-MEMC	37.50	NA	1
Ham interface board	HAM-1	195.00	295.00	2	Paddlecard — standard	PAD-STD	6.95	NA	1
I/O card four 8-bit input ports and four 8-bit output ports	IO-F	65.00	95.00	2	Paddlecard — prototyping	PAD-PROT	6.95	NA	1
Audio interface — stand alone	CAS-STD	39.50	65.00	2	Cabinets				
Mini Floppy interface — supports four devices	DSM-INT1	199.50	249.50	2	Mainframe — Basic Box	88-STD	95.00	NA	9
Standard Floppy interface — supports four devices	DSS-INT1	199.50	249.50	2	Mainframe — Complete Basic Box	88-COMP	145.00	NA	12
Phideck interface — supports four devices	PHI-F	149.50	220.00	2	Mainframe — Dress Cabinet	88-CPU	249.50	NA	27
Video interface — 64 x 16 including audio interface	TVC-64	155.00	205.00	2	Keyboard for KEY-1	CB-KEY1	59.50	NA	7
Video interface — 96 x 24	TVR-96	NA	295.00	2	Monitor for MONG	CB-MONG	59.50	NA	6
Voice Synthesizer board	VOTRAX1	695.00	795.00	4	Phideck — 2 drives	CB-CAS2	65.00	NA	9
Paddlecard — 20mA current loop with parts	PAD-20MA	7.95	NA	1	Phideck — 4 drives	CB-CAS4	65.00	NA	9
Paddlecard — with 8 RS232 lines	PAD-232-1	30.00	NA	1	Mini Floppy — 1 drive	DSM-CB1	95.00	NA	15
Paddlecard — with 32 RS232 lines	PAD-232-4	60.00	NA	1	Mini Floppy — 2 drives	DSM-CB2	95.00	NA	15
Peripheral Mechanisms					Standard Floppy — 1 drive	DSS-CB1	145.00	NA	20
Capacitance keyboard with numeric pad, cursor control keys, and interface cable	KEY-1	NA	180.00	6	Standard Floppy — 2 drives	DSS-CB2	145.00	NA	20
Cassette Tape Unit — Superscope C-104	CAS-1	NA	119.50	9	Peripheral Plate	PP-1	29.95	NA	5
Mini Floppy Disk Drives — MPI (dual density) or equiv.	DSM-DRPT1	NA	395.00	12	Power Supplies				
Standard Floppy Disk Drives — Shugart or equiv.	DSS-DRSH1	NA	595.00	14	Mini Floppy — supports 2 drives	DSM-PWR2	85.00	110.00	5
Phideck digital cassette tape unit	PHI-1	NA	149.50	4	Standard Floppy — supports 2 drives	DSS-PWR2	85.00	110.00	5
Accessories - Cables/Connectors					-5V @ 1 amp, -12V @ 1 amp, +12V @ 1 amp	PWR-0	45.00	60.00	3
Cable kit with crimp tool	CAB-1	55.00	NA	4	+5V @ 12 amp	PWR-12-5V	NA	135.00	9
Cable kit without crimp tool	CAB-2	37.50	NA	3	+5V @ 12 amp plus PWR-0	PWR-12	175.00	195.00	9
Video monitor cable — 6'	CBL-VID	NA	6.95	1	+5V @ 18 amp	PWR-18-5V	NA	185.00	10
Phideck cable pack — up to 4 drives — 6'	CBLPK-PHI	NA	34.95	2	+5V @ 18 amp plus PWR-0	PWR-18	220.00	245.00	10
Mini Floppy cable pack — up to 2 drives	DSM-CBLPK2	NA	49.50	2	Upgrades				
Mini Floppy cable pack — up to 4 drives	DSM-CBLPK4	NA	84.50	2	CPU card to Z-80 CPU	Z80-UPG	145.00	NA	2
					TVC card from 32 char/line to 64 char/line	TVC-64UPG	69.50	NA	2
					MEM-16 to MEM-32 using 4K statics	MEM16-32	425.00	NA	2
					Mini Floppy expansion from 1 to 2 drives	DSM-EXP-12	445.00	445.00	10
					Mini Floppy expansion from 2 to 3 drives	DSM-EXP1	595.00	695.00	20
					Mini Floppy expansion from 2 to 4 drives	DSM-EXP2	995.00	1,145.00	34
					Standard Floppy expansion from 1 to 2 drives	DSS-EXP-12	645.00	645.00	20
					Standard Floppy expansion from 2 to 3 drives	DSS-EXP1	825.00	925.00	20
					Standard Floppy expansion from 2 to 4 drives	DSS-EXP2	1,375.00	1,545.00	34

Description **Order Code** **Kit Price** **Assembled Price** **Wt.** **Description** **Order Code** **Kit Price** **Assembled Price** **Wt.**

Media/Supplies

Standard Floppy Disk — soft sector										
Single	DSS-F1S	NA	7.00	1	Documentation supplied with component.					
Package of 5	DSS-F5S	NA	30.00	2	Mainframes — 18K through 64K	DOC-MAINC		25.00	1	
Package of 10	DSS-F10S	NA	55.00	3	Digital cassettes (Phidecks)	DOC-PHIC		7.50	1	
Mini Floppy Disk — soft sector					Mini Disk Subsystems	DOC-DSM		10.00	1	
Single	DSM-F1S	NA	7.00	1	Standard Disk Subsystems	DOC-DSS		10.00	1	
Package of 5	DSM-F5S	NA	30.00	2	Keyboard — capacitance with numeric pad	DOC-KEYC		1.50	1	
Package of 10	DSM-F10S	NA	55.00	2	Data Display	DOC-MON9DC		1.50	1	
Audio Cassette					96 Column Printer	DOC-PT96C		5.00	1	

SERIES 1 — UNITS

Item documentation not included with SERIES 2 thru 4.										
Basic Box and Peripheral Plate						DOC-BB&PP		1.50	1	
Standalone Audio Cassette Interface						DOC-CASSTD		1.50	1	
Communications Interface						DOC-COMM		5.00	1	
8K Static Memory						DOC-MEMB		1.50	1	
32K Static Memory						DOC-MEM32		1.50	1	
3-voltage Power Supply						DOC-PWR0		1.50	1	
64 Character TV Readout & Cassette Interface						DOC-TVC-64		1.50	1	

1702-A EPROM						DOC-1702A		1.50	1
Real World						DOC-RW		7.50	1
Speech Synthesizer						DOC-VOTRAX		10.00	1
6500-CPU						DOC-6500		5.00	1
6800-CPU						DOC-6800		5.00	1
8080-CPU						DOC-8080		5.00	1

SOFTWARE

All software packages include documentation.										
Operating Systems										
OASIS						OASIS	DS	75.00	2	
MCOS						MCOS	DS	110.00	2	
Z-80 Operating System						Z80-OPSYS	DS	7.50	1	
Disk Operating System (DISKMON) on standard disk						DISKMON-S	DS	45.00	1	
Disk Operating System (DISKMON) on mini disk						DISKMON-M	DM	45.00	1	
Phideck Operating System (PHIMON)						PHIMON		30.00	1	
Languages										
APL on standard disk						APL-S	DS	300.00	1	
APL on mini disk						APL-M	DM	300.00	1	
Assembler II on audio						ASSMII	A	15.00	1	
Business BASIC on audio						BUS-1	A	20.00	1	
C-BASIC						C-BASIC	DS	100.00	1	
CONVERS						CONVERS	A, P	25.00	1	

DOCUMENTATION

SERIES 4 — BYTEMASTER

Standard documentation supplied with system including hardware, cabinets, cables and software.

Bytemaster 1 & 2, digital tape based						DOC-MAST-1		55.00	1
Bytemaster 3 & 4, mini disk based						DOC-MAST-2		55.00	1

SERIES 3 — SYSTEMS

Standard documentation supplied with system including hard-ware and software.

System 1						DOC-DGSYS1		35.00	1
System 2						DOC-DGSYS2		35.00	1
System 3						DOC-DGSYS3		35.00	1
System 4						DOC-DGSYS4		45.00	1
Development 1						DOC-DGSYS5		45.00	1
Computational 1						DOC-DGSYS6		35.00	1
Ham System 1						DOC-DGYSYH		35.00	1

Description	Order Code	Kit Price	Assembled Price	Wt.	Description	Order Code	Kit Price	Assembled Price	Wt.
ASSEMBLER II on standard disk	DASSM-2-S	DS	25.00	1	Maxi-BASIC Games	MB-GS1	A	7.50	1
ASSEMBLER II on mini disk	DASSM-2-M	DM	25.00	1	Set 1	MB-GS2	A	7.50	1
Business BASIC on standard disk	DBUS-1-S	DS	35.00	1	Set 2	MB-GS3	A	7.50	1
Business BASIC on mini disk	DBUS-1-M	DM	35.00	1	Set 3	MB-GS4	A	7.50	1
Maxi-BASIC on standard disk	DMAXI-S	DS	25.00	1	Set 4	MB-GS5	A	7.50	1
Maxi-BASIC on mini disk	DMAXI-M	DM	25.00	1	Set 5	MB-GS6	A	7.50	1
E-BASIC	E-BASIC	DS	30.00	1	Set 6	MB-GS7	A	7.50	1
Maxi-BASIC on audio	MAXI-BASIC	A	15.00	1	Set 7	MB-GS8	A	7.50	1
MCOS-Assembler	MCOS-ASSM	DS	65.00	1	Set 8	MB-GS9	A	7.50	1
Mini-BASIC	MINI-BASIC	A	15.00	1	Set 9	MB-GS10	A	7.50	1
OASIS Macro Assembler	OASIS-ASSM	DS	50.00	1	Complete Set 1-9	MB-GSCOMP	A	60.00	5
OASIS BASIC	O-BASIC	DS	50.00	1	MCOS Games	MCOS-GAMES	DS	25.00	1
OPUS/ONE on standard disk	OPUS-1-S	DS	65.00	1	Mini-BASIC Games	MINB-GS1	A	10.00	1
OPUS/ONE on Phideck	OPUS-1-P	P	65.00	1	Micro-Chess	MICRO-CH	A	15.00	1
OPUS/TWO on standard disk	OPUS-2-S	DS	110.00	1	Tiny-BASIC Games 1-6	TBX-GSCOMP	A	25.00	3
OPUS/TWO on Phideck	OPUS-2-P	P	110.00	1	Super Games on audio	SUP-GAME-A	A	25.00	1
Tiny-BASIC extended	TBX-TVCOS	A	7.50	1	Super Games on standard disk	SUP-GAME-S	DS	30.00	1
Applications					Super Games on mini disk	SUP-GAME-M	DM	30.00	1
Word Processing					SARGON Chess	SARGON	A	20.00	1
Digital Group Word Processing	WOPROC-1	A, P	27.50	1	Z-80 Lunar Lander	Z80-LUNAR	A	7.50	1
Business					Other				
Aspen Computer Service —	ACS-AR	P	295.00	1	Amateur Radio Package	ARP-1	A	5.00	1
Account Receivable					Code Practice	CODE-PRAC	A	5.00	1
Aspen Computer Service —	ACS-GL	P	295.00	1	Speech Synthesizer Sample	VDEMO1	A	5.00	1
General Ledger					Audio Demo Tape				
Aspen Computing Service —	ACS-PAY	P	295.00	1	Speech Synthesizer Talking BASIC	VOT1	A	10.00	1
Payroll					Speech Synthesizer Talking CW	VOT2	A	10.00	1
Point-of-Sale Data Collection	BUS-100	A	15.00	1	Speech Synthesizer Latin & Spanish	VOT3	A	10.00	1
(minimal)					Memory Tester, Super Clock &	3PACK-1	A	7.50	1
Text Editing					Z-80 Op Sys				
Z-80 Editor Formatter	ED-FORM3	A	15.00	1	Documentation (sold separately)				
Cassette, User's Manual					Phideck Operating System (PHIMON)	DOC-PHIMON		15.00	1
Technical Manual & Source Code					Disk Operating System (DISKMON)	DOC-DISKM		15.00	1
MCOS Text Output Processor	MCOS-TOP	DS	65.00	1	Assembler II	DOC-ASSMII		7.50	1
Script (OASIS)	SCRIPT	DS	30.00	1	Business BASIC	DOC-BUS1		7.50	1
Text Editor	TEXT-ED1	A	7.50	1	CONVERS	DOC-CONVER		12.50	1
Programming Aids					OPUS/ONE and TWO	DOC-OPUS		12.50	1
Assembler II Editor on audio	ASSM-ED-A	A	12.50	1	Word Processing (WOPROC)	DOC-WOPROC		10.00	1
Assembler II Editor on standard disk	ASSM-ED-S	DS	15.00	1					
Assembler II Editor on mini disk	ASSM-ED-M	DM	15.00	1					
Dis-Assembler II	DISASSM2	A	15.00	1					
Z-80 Educator	ED-Z80	A	10.00	1					
MCOS Utilities	MCOS-UTIL	DS	25.00	1					
PHIMON 2.0 Update	PUP-1	P	10.00	1					
ACS Maxi-BASIC Sort	SORT-MB2	P	27.50	1					
STEPPER	STEPPER	A	10.00	1					
Z-80 Relocator	Z80-RELO	A	10.00	1					
Games									
Galaxy	GALAXY	A	7.50	1					
Kingdom	KING1	A	5.00	1					