



CLEVELAND CONSUMER COMPUTERS & COMPONENTS

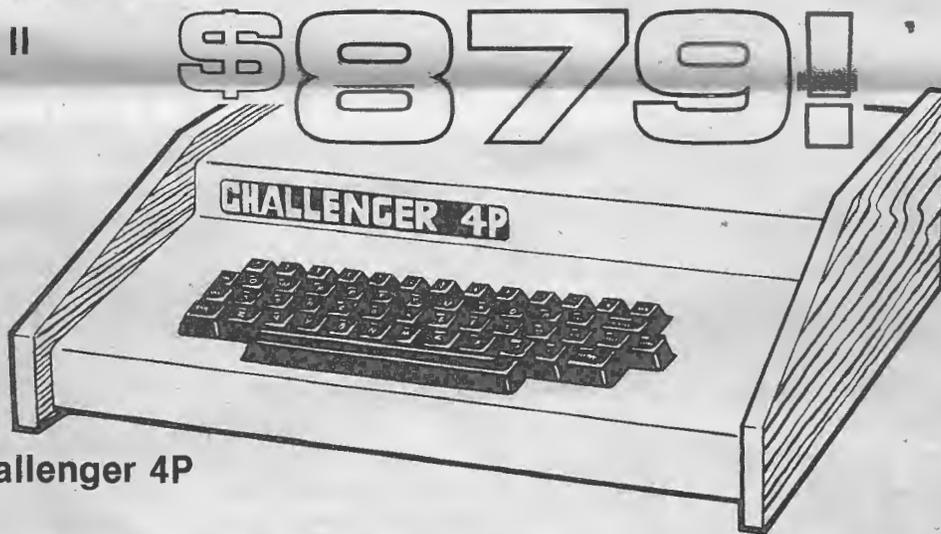
P.O. Box 46627 / Cleveland, Ohio 44146



Superboard II



Challenger 1P



Challenger 4P

LOW PRICES! FAST DELIVERY!

Personal Computers ☆ Components
Accessories ☆ Software ☆ Books

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IN OHIO, CALL (216) 464-8047

Welcome to the world of Personal Computers!

By working closely with Ohio Scientific, America's largest full-line microcomputer manufacturer, Cleveland Consumer Computer and Components is able to offer the fastest delivery and lowest prices on Ohio Scientific microcomputer systems and software.

Our goal is to give you the best possible service. We provide a clear, comprehensive listing of products, prices, and ordering information. But should you have additional questions call our toll-free 800 number for more detailed ordering information.

Thank you

Terms and Policies

1

Shipment will normally be made within 2 working days of our receipt of your order from Ohio Scientific stock.

2

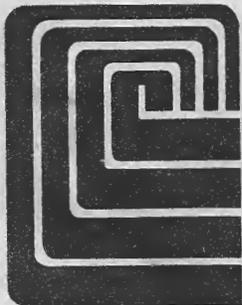
All continental U.S. orders will be shipped via United Parcel Service unless otherwise specified. There will be an additional charge for shipping via another method.

3

No equipment may be returned for repair without prior authorization. Procedure: Call our technical service and discuss the problem. If required, the technician will issue you an "RA" number. Pack the equipment in its original shipping carton and

return to Ohio Scientific prepaid via United Parcel. Be certain that the "RA" number appears in large bold letters on the outside of the carton.

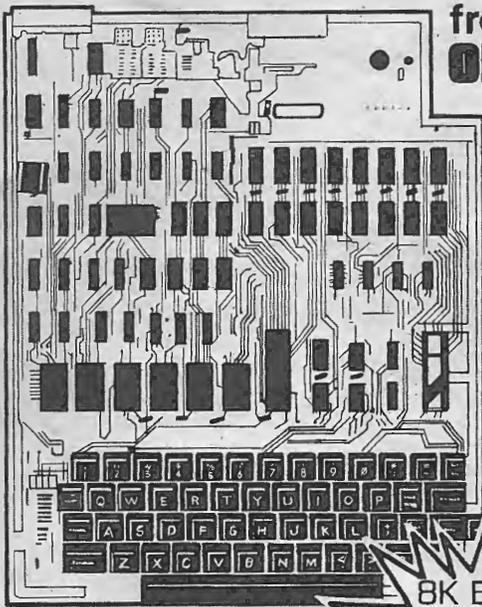
Include as specific a description as possible of both the problem and its symptoms inside the box. Cleveland Consumer Computers and Components will pay return freight only if the unit is under warranty. In the case of out-of-warranty repairs, you will be notified of the charges due. Payment must be made before the equipment is returned.



Series 2 SUPERBOARD II

from
OHIO SCIENTIFIC

**BIGGEST
LITTLE BARGAIN
IN THE
COMPUTER WORLD!**



Ideal for hobbyists and beginners. Includes a single board computer with full 53 key keyboard, video output display circuitry, audio cassette and RS-232 interfaces, 8K BASIC-IN-ROM and a 4K user workspace RAM expandable on board to 8K. Requires the user to add a cassette deck (additional to the board) as well as a regulated 5 volt 3 amp power supply and may optionally use an RF modulator (for reception via a standard home TV).

Superboard II Series 2 (4K)	\$299
4KP (4K of 2114 memory chips)	\$ 79
PS005 (5 volt 4.5 Amp open frame power supply)	\$ 45
RF Modulator (UHF battery powered)	\$ 35



ONLY \$299



610 Memory Expander and Floppy Controller Board

The 610 board comes with 8K of 2114 memory but has sockets for 24K of user RAM, thus yielding a system total of 32K of program workspace when used with the Superboard II. Additionally, the 610 board comes with circuitry to control 1 or 2 mini floppy drives. This board allows the user to expand memory in stages before adding a floppy drive. The board draws 5 volts at 4.5 amps and thus requires a second PS005 type supply. Each 4K of memory the user wishes to add requires a separate 4KP memory chip set.

610 board	\$298
4KP (4K of 2114 memory chips)	\$ 79
PS005 (5 Volt 4.5 Amp open frame power supply)	\$ 45

Mini-floppy Disk Drive

This drive is sold bare (i.e.: no power supplies or case). It is the standard mini-floppy disk drive used by Ohio Scientific in C1P systems. This drive requires 5 Volts at 0.7 Amps and 12 Volts at 1.5 Amps. The drive should be ordered as an "A" drive or "B" drive; the "A" drive comes with Pico DOS. Total system memory (RAM workspace) should be 12K minimum for Pico DOS and 20K minimum for OS-65D. Note: Pico DOS is a "bare bones" disk storage system. It has two commands, LOAD and SAVE. It allows the user to store or recall one through eight programs per disk by program number. Each program may be 8K long. It DOES NOT allow program names and it has NO utilities. OS-65D is the standard disk operating system, while OS-65D/AEM includes an assembler/editor and extended monitor.

Mini Floppy Drive (specify "A" or "B")	\$299
PS003 (12 Volt 2 Amp open frame power supply)	\$ 45
PS005 (5 Volt 4.5 Amp open frame power supply)	\$ 45
Pico DOS (shipped with "A" drive)	NO CHARGE
OS-65D V3.X (specify your system)	\$ 49
OS-65D/AEM V3.X (specify your system - includes assembler/editor)	\$ 75

630 I/O Expander Board

The 630 board will provide color (for Series 2 Superboard systems), software controlled modem and printer ports, joystick, keypad, home security and AC remote control interface points, a programmable sound generator and a 16 pin I/O bus interface. Please contact us for availability details.

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Series 2 THE CHALLENGER C1P

OHIO SCIENTIFIC'S
INCREDIBLY POPULAR
"STARTER" COMPUTER!

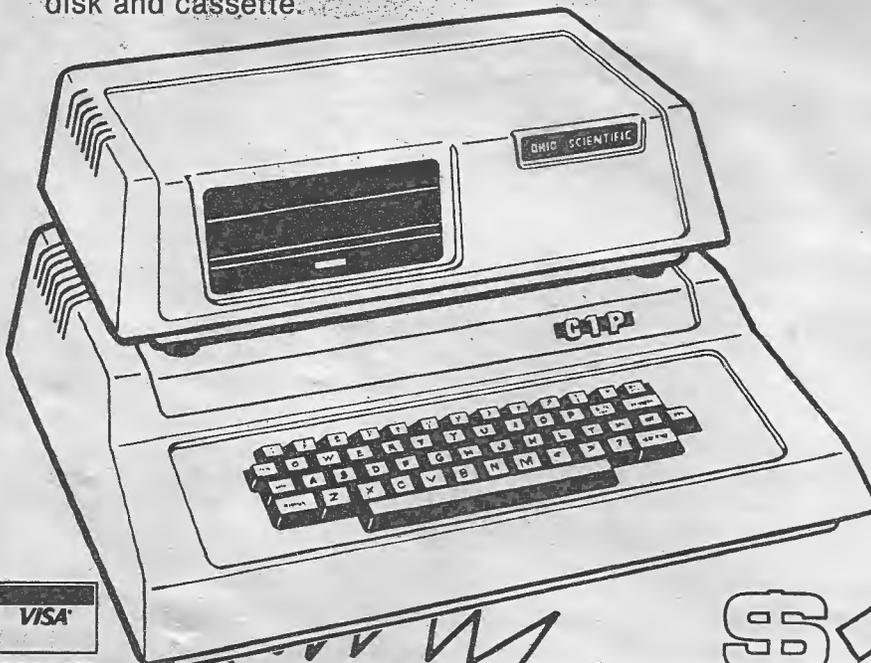
The C1P cassette or disk based computers consist of factory assembled and tested Superboard II, 610, or mini floppy components housed in metal cases and surrounded with contemporary styled enclosures. These systems are available in two standard configurations: the C1P Series 2 (8K) which is cassette-based or the C1P MF Series 2 (20K) which uses either mini-floppies and/or audio cassettes. All C1P MF Series 2 machines come with both Pico DOS and OS-65D V3.X. Any C1P system may be expanded to 32K of RAM workspace and one or two mini-floppy drives. A disk-based C1P MF maintains bidirectional program transfer ability between disk and cassette.



53 KEY KEYBOARD
WITH UPPER AND
LOWER CASE

STARTS AT

\$479



THE CHALLENGER C1P MF

MINI-FLOPPY SPEED
UNBEATABLE PRICE!

STARTS AT

\$1279

PROGRAM AND
DATA RETRIEVAL
IN SECONDS

C1P Series 2 (8K)	\$ 479
C1P MF Series 2 (20K)	\$1,279
4KP (4K of 2114 memory chips)	\$ 79
RF Modulator (UHF battery operated)	\$ 35

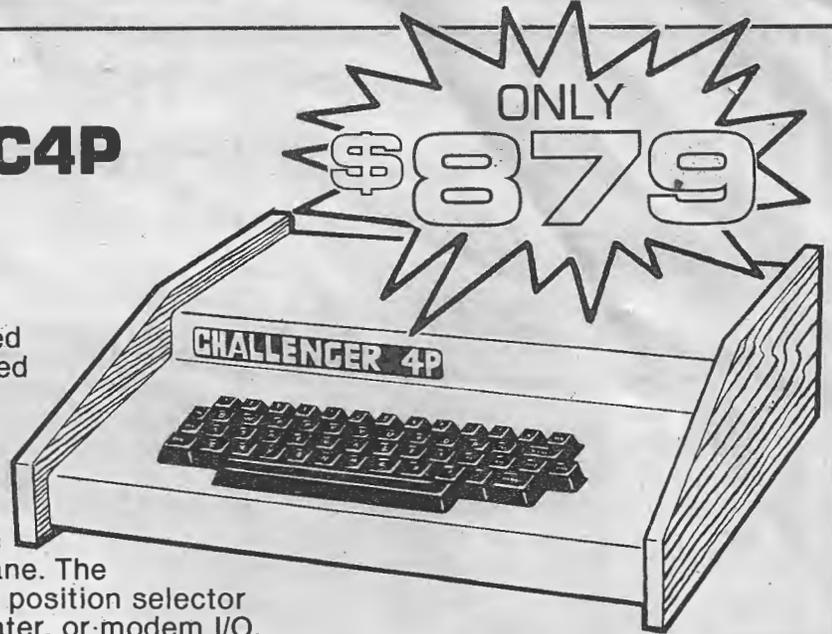


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Series 2 THE CHALLENGER C4P

Color graphics & sound!

The Series 2 C4P is a mid-level cassette-based system designed for those individuals who need larger display densities (64 characters per line by 32 lines), color, AC remote control interface, a programmable tone generator as well as an 8 bit DAC, and joystick/keypad ports as standard equipment. The C4P is the least expensive system in the Ohio Scientific line to use the standard 4 slot 48 pin backplane. The Series 2 version of this machine includes a 3 position selector switch so the user may choose cassette, printer, or modem I/O.



C4P Series 2 (8K) \$ 879
RF Modulator (UHF battery powered) \$ 35



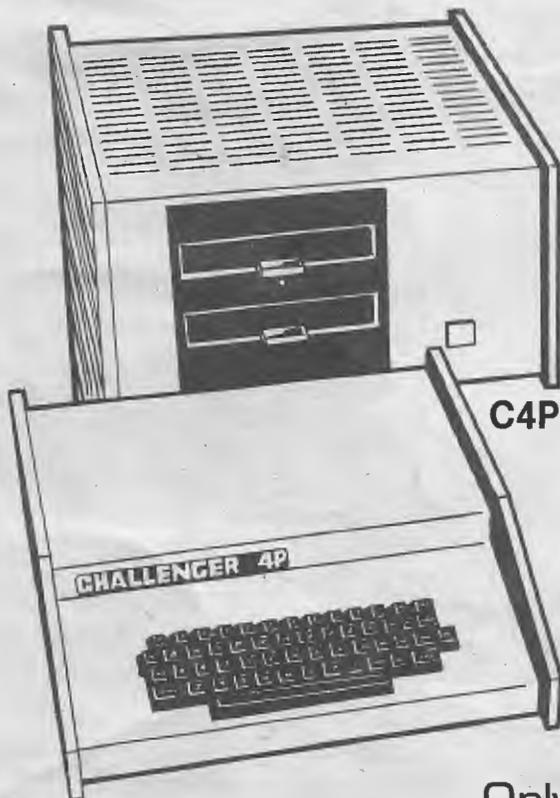
Series 2 THE CHALLENGER C4P MF or C4P DF

The ultimate in portable computers!



C4P MF

\$1799



C4P DF

The Series 2 C4P MF and C4P DF computers share the following characteristics: Both have all the features of the C4P except for audio cassette capability, both have a built-in home security interface, 16 parallel I/O lines, a 16 line I/O port, software selectable modem and printer ports and speeds, and a real time clock (which is used in conjunction with disk operation). Optional software allows foreground/background operation when used with the home control operating system. The GT option allows high speed operation (3.3 MHz vs. 2 MHz CPU speed).

The Series 2 C4P MF runs OS-65D V3.X on 5 1/4" mini-floppy media while the C4P DF uses standard 8" drives.

C4P MF Series 2 (24K with single 5 1/4" disk drive) \$1,799
C4P MF Series 2 (48K with single 5 1/4" disk drive) \$2,199
C4P DF Series 2 (48K with dual 8" disk drive) \$2,899
C4P MF-GT Series 2 (24K with single 5 1/4" disk drive) \$2,749
RF Modulator (UHF battery powered) \$ 35

Only \$2899

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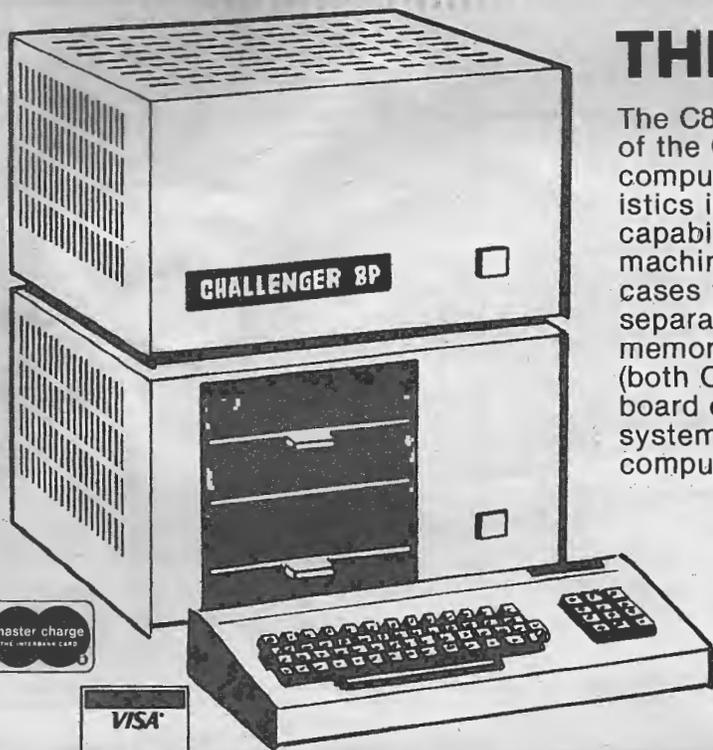
THE CHALLENGER C8P DF

The C8P DF constitutes the top of the Ohio Scientific personal computer line. Its characteristics include all of the capabilities of the C4P DF

Top of the line!
It's got it all.

machine with the following additional features: two separate cases for the 8 slot chassis and dual 8" drive chassis, a separate keyboard with 10-key numeric keypad, 32K of memory standard, two different operating systems standard (both OS-65D and OS-65U) and generous power supply and board expansion capability (4 or 5 slots are free in standard systems). The GT option is also available for the C8P DF computer with 48K of memory and 3.3 MHz CPU.

C8P DF Series 2 (32K with dual 8" disk drives) \$2,995
 C8P DF Series 2 (48K with dual 8" disk drives) \$3,295
 C8P DF-GT Series 2 (48K with dual 8" disk drives) \$5,120
 RF Modulator (UHF batter powered) \$ 35



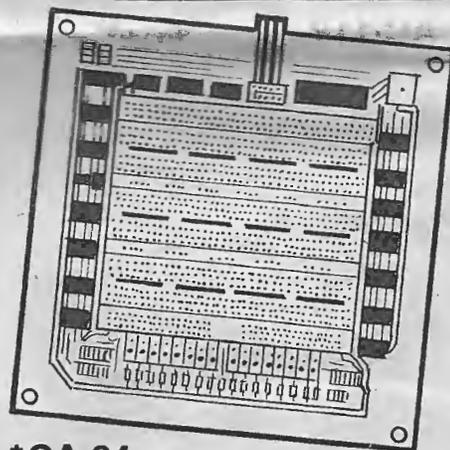
Still Only **\$2995**

EXPERIMENTAL BOARDS

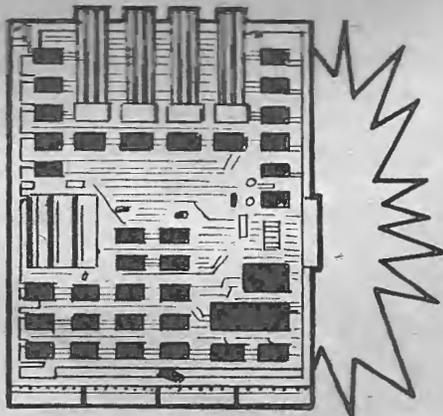
These boards presume that an end user has much more than a casual interest in expansion of their system. Additional user-supplied hardware or expertise may be necessary for full utilization of these boards. These boards are used on systems equipped with either a 630 board (for Superboard II or C1P systems) or an A-15 board (for C4P MF, C4P DF, or C8P DF systems).

*Please contact us for availability
 For other personal system boards, IC's, molex hardware, key switches, etc. please contact us for price and availability.

*630 board (used on C1P or Superboard II systems) \$ 229
 A-15 board (used on disk based C4P and C8P systems) STANDARD

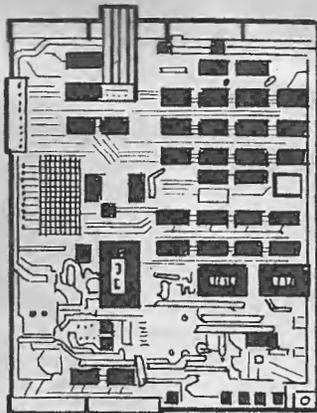


***CA-24**
 Solderless "waffle-type" protoboard with PIA, ACIA, LEDs and switches **\$175**



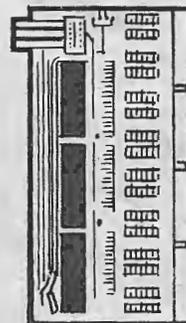
CA-20
 8 port I/O bus interface and battery powered calendar clock **\$175**

CA-20A
 As above without clock **\$ 95**



CA-22
 Two 12 bit D/A and one 12 bit/8 bit A/D with 16 ch. mux. **\$598**

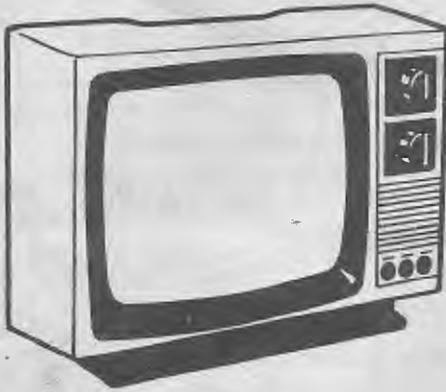
***CA-23**
 PROM blaster for 2758, 2716, 2732, or 2764 E PROMS **\$195**



CA-21
 48 line parallel I/O **\$ 45**



Accessories



AC-3P

12" screen B/W TV with direct video input **\$159**



AC-17P

Home security starter set with 1 console, 1 fire detector, 2 window units, 1 door unit, and software. Will run on any disk-based C4P or C8P — please specify system (5 1/4" or 8")

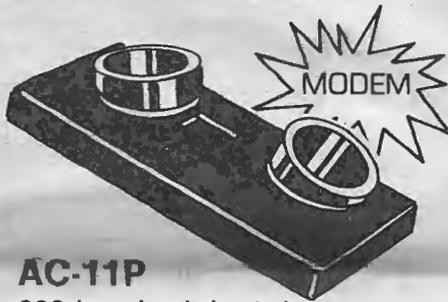
\$249



*AC-20

10" screen color video monitor
NOTE: Standard TV reception is not possible with this unit for color TV see AC-21.

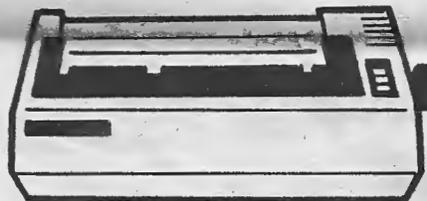
\$399



AC-11P

300 baud originate/answer acoustic coupled modem

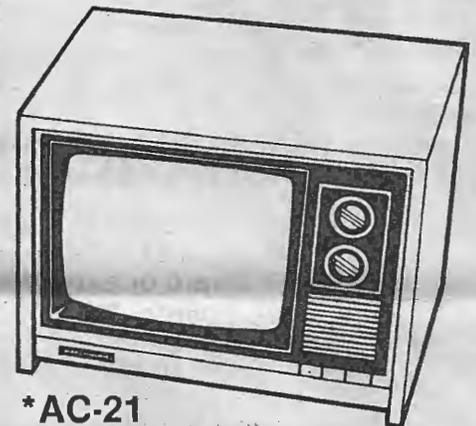
\$225



AC-19

Dot matrix printer with 40, 66, 80, or 132 columns — bi-directional printing, with auto line feed, and both horizontal and vertical tab.
NOTE: Requires AC-19A serial interface when used in personal systems.

\$699



*AC-21

13" color TV with direct video input. May be used as either TV or monitor

\$699



AC-12P

Remote control starter set — includes command console, 2 1 amp controllers, 2 appliance controllers, and OS-65HC (for disk systems) or SCX 105 (for cassette-based C4P systems) — please specify system

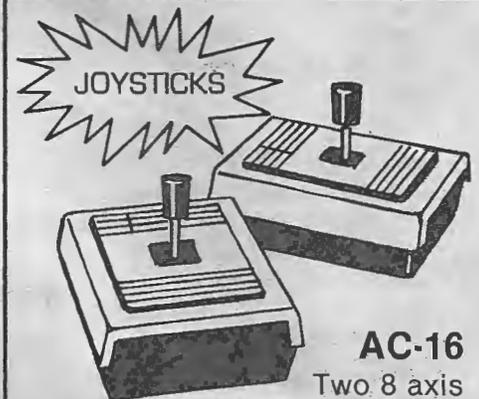
\$175



AC-19A

Serial interface for using dot matrix printer in personal systems

\$ 75



AC-16

Two 8 axis joysticks with cables
NOTE: For use with all C4 or C8 systems (C4 requires 630 board)

\$ 39

*Please contact us for availability.

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Frequently asked questions:

Q: What's the difference between a Superboard II and a C1P?

A: Almost none. A C1P is a factory selected and tested Superboard which has 8K of RAM workspace and is assembled into a case (with power supply, fuse, line cord, etc.) at the factory.

Q: What does the Series 2 mean?

A: The Series 2 systems include a populated RS 232 port, and an 8 bit DAC as standard, as well as a BREAK key which must be held down for a second or two to reset the system.

Q: What can Pico-DOS do?

A: Very little. It allows users of C1P MF or disk-based Superboards to use the ROM basic in conjunction with their disk systems to quickly LOAD or SAVE programs by number (#1 through #8). Each program stored may be only 8K long. There are no utilities available to the user on Pico-DOS; additional copies of Pico-DOS must be purchased from an Ohio Scientific dealer.

Q: What are the differences between various versions of OS-65D

A: There are currently two "flavors" of OS-65D (apart from media size and hardware configuration differences). The plain "vanilla" has 9½ digit BASIC, files I/O, and various system utilities while the "vanilla-with-topping" includes all of the foregoing plus an Assembler, an Editor (for the Assembler), and an Extended Monitor (with a disassembler). The plain "vanilla" version is called OS-65D and costs \$49.00, while the "vanilla-with-topping" is known as OS-65D/AEM and costs \$75.00. *Always* tell us which hardware you have (C1P MF, C4P MF or DF, or C8P DF).

Q: How much workspace is on a disk?

A: Assuming that the user wants to keep a copy of the full operating system on a disk which is used for program or data storage, there would be approximately 78K of space left free on a 5¼" floppy or approximately 233K of space free on an 8" disk. Users do not need to keep full copies of the operating system on their disks so that in practice disk storage capacities may be higher, depending upon which system utilities the user decides to keep on the disk.

Q: What type memory is used in Ohio Scientific personal systems?

A: Most of the current personal systems use 2114 type static memory. The exception to this rule is the ultra low power 48K static memory board which uses the 8104 chip.



CLEVELAND CONSUMER COMPUTERS & COMPONENTS

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Q: Can I upgrade a C4P to a C4P MF?

A: Yes, you can. A factory upgrade costs approximately \$1,300.00 and adds disk operation. There are a number of variables that effect this cost. Please contact us for details.

Q: What does the selector switch do on the back of Series 2 C1P or C4P Systems?

A: This switch selects cassette, printer, or modem I/O.

Q: Is it possible to upgrade older C1P or Superboard II systems to Series 2 capabilities?

A: Users have added several Series 2 capabilities to their older C1P or Superboard II systems. See, for example, the article in the December 1980 issue Kilobaud-Microcomputing magazine on adding D/A capability.

Complete Selection of Books and Manuals



C1P and C1P MF Introductory Manual

Includes start-up procedures for C1P, C1P MF and Superboard II, systems.

\$6.95

C1P Users Manual

Contains initial information on characteristics of the C1P system as well as a description of more advanced features.

\$8.95



C4P Users Manual

Contains initial information on characteristics of the C4P system as well as a description of more advanced features.

\$8.95

C8P Users Manual

Contains initial information on characteristics of the C8P system as well as a description of more advanced features.

\$8.95



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More Books and Manuals!



65V Primer

This book introduces machine language programming by using the machine's internal monitor ROM (the 65 V); it assumes no previous machine code experience. **\$ 5.95**



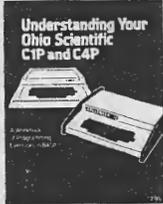
BASIC and the Personal Computer

This popular text starts a user at the introductory level and allows the individual to progress through increasingly more sophisticated concepts and techniques. **\$12.95**



How to Program Microcomputers

This overview provides an introduction to machine language programming for the 6502, 6800, and Z-80 series chips. **\$ 8.95**



Understanding Your Ohio Scientific C1P and C4P

This workbook is designed to be used with a general text on BASIC. It has exercises for acquainting the user with specific features of ROM BASIC. **\$ 7.95**



*OSI BASIC Reference Manual

A complete reference manual in BASIC fundamentals as well as BASIC statements recognized by Ohio Scientific computers. **\$6.95**



*Assembler Editor/Extended Monitor

Offers an overview of assembly programming on an Ohio Scientific computer as well as the use of the extended monitor as an extensive debugging tool. **\$6.95**



Professional Computers Setup and Operations Manual

Provides general background information and usage instructions for all Ohio Scientific professional computers. **\$ 9.95**

*Contact us for availability



*CA-24 Solderless Prototyping Board Experimenters Manual

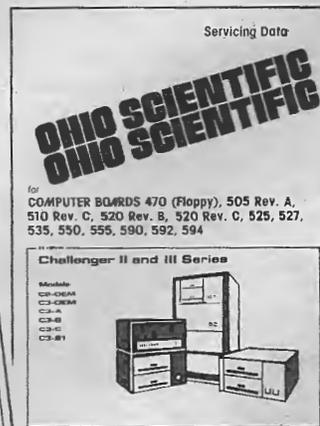
Documentation for stand alone prototyping and computer experiments using the CA-24 solderless interface prototyping board. **\$ 6.95**

Howard W. Sams Service Manuals

These manuals provide servicing data as well as schematic diagrams.

*C4P and C4P MF **\$16.00**

C2-OEM, C3-OEM, C3-A, C3-B, C3-C, C3-S1 **\$40.00**



*These manuals are for Series 1 systems.

* Superboard II C1P and C1P MF **\$ 8.00**



Programmable Audio Tone Gen.	See Note 8	See Note 8	See Note 8	Std.	Std.	Std.	Std.	Std.	Std.
Composite Video Out	Std.								
Char/line X # lines	24 x 24 or 48 x 12	24 x 24 or 48 x 12	24 x 24 or 48 x 12	32 x 32 or 64 x 32					
Parallel Interface Ports	See Note 6	See Note 6	See Note 6	See Note 7	Yes	Yes	Yes	Yes	Yes
A.C. Remote Interface Control	See Note 5	See Note 5	See Note 5	Yes	Yes	Yes	Yes	Yes	Yes
8 bit DAC	Std.								
BASIC-14-ROM	Yes	Yes	Yes	Yes	No	No	No	No	No
CPU Clock Speed, (MHz)	1	1	1	1	2	2	2	3.3	3.3
Printer Port (Serial)	See Note 4	Std.							
Modem Port	See Note 4	Std.							
RS-232 Capability	Std.								
Color Capability	See Note 3	See Note 3	See Note 3	Std.	Std.	Std.	Std.	Std.	Std.
Disk Capability	See Note 1	See Note 1	Std.	See Note 2	Std.	Std.	Std.	Std.	Std.
Cassette Capability	Std.	Std.	Std.	Std.	No	No	No	No	No
Std. Memory (K)	4	8	20	8	24	48	32	24	48
*Max Memory (K)	8	8	32	48	48	48	48	48	48

SERIES 2 SYSTEMS	SBII	C1P	C1P MF	C4P	C4P MF	C4P DF	C8P DF	C4P MF (GT)	C8P DF (GT)
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- 5 Addition of the 630 board provides this port. Disk availability suggested but not required.
- 6 Addition of the 630 board provides this port.
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* Ohio Scientific has announced that 48K systems now have the ability to go to 96K of RAM via some engineering changes; standard systems have a maximum program RAM of 48K.

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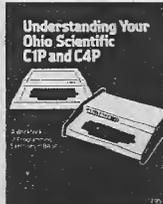
\$12.95



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\$ 8.00



*C4P and C4P MF
\$16.00

C2-OEM, C3-OEM, C3-A, C3-B, C3-C, C3-S1
\$40.00



*These manuals are for Series 1 systems.



Programmable Audio Tone Gen.	See Note 8	See Note 8	See Note 8	Std.	Std.	Std.	Std.	Std.	Std.
Composite Video Out	Std.								
Char/line X # lines	24 x 24 or 48 x 12	24 x 24 or 48 x 12	24 x 24 or 48 x 12	32 x 32 or 64 x 32					
Parallel Interface Ports	See Note 6	See Note 6	See Note 6	See Note 7	Yes	Yes	Yes	Yes	Yes
A.C. Remote Interface Control	See Note 5	See Note 5	See Note 5	Yes	Yes	Yes	Yes	Yes	Yes
8 bit DAC	Std.								
BASIC-14-ROM	Yes	Yes	Yes	Yes	No	No	No	No	No
CPU Clock Speed, (MHz)	1	1	1	1	2	2	2	3.3	3.3
Printer Port (Serial)	See Note 4	Std.							
Modem Port	See Note 4	Std.							
RS-232 Capability	Std.								
Color Capability	See Note 3	See Note 3	See Note 3	Std.	Std.	Std.	Std.	Std.	Std.
Disk Capability	See Note 1	See Note 1	Std.	See Note 2	Std.	Std.	Std.	Std.	Std.
Cassette Capability	Std.	Std.	Std.	Std.	No	No	No	No	No
Std. Memory (K)	4	8	20	8	24	48	32	24	48
*Max Memory (K)	8	8	32	48	48	48	48	48	48

SERIES 2 SYSTEMS	SBII	C1P	C1P MF	C4P	C4P MF	C4P DF	C8P DF	C4P MF (GT)	C8P DF (GT)
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Cassette Software

Educational Programs

	C1P	C4P	PRICE
Add Game	#316	#316	\$ 6.50
Bar Graph	327	305	6.50
Base Conversions	321	321	6.50
Basic Math	334	334	6.50
Clock Tutor	353	338	6.50
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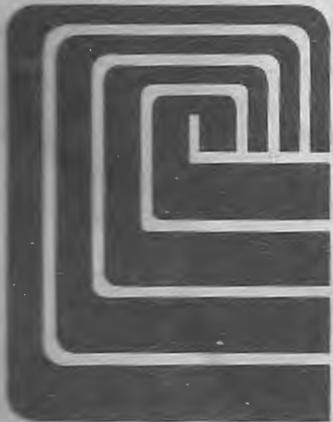
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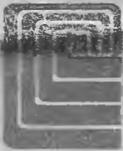
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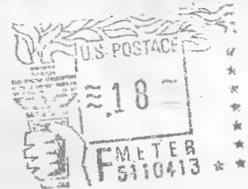


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