Considering a Microcomputer?

Be Sure to Check Out the Product Offerings of the World's Largest Full Line Microcomputer Company.

All Ohio Scientific machines come with microcomputing's fastest full feature BASIC-in-ROM or on-Disk for instant use.

Challenger I Series

	Minimum Configuration	Base Price
Economical computer systems that talk in BASIC. Ideal for hobbyists, students, education and the home.		
Superboard II — World's first complete system on a board including keyboard, video display, audio cassette, BASIC-in-ROM and up to 8K RAM	4K RAM	$ 279
Challenger IP — Fully packaged Superboard II with power supply	4K RAM	$ 349
Challenger IP Disk — Complete mini-floppy system expandable to 32K RAM	16K RAM	$1190

Challenger IIP Series

Ultra high performance BUS oriented microcomputers for personal, educational, research and small business use.		
C2-4P — The professional portable	4K RAM	$ 598
C2-8P — The world's most expandable personal machine for business or research applications	4K RAM	$ 799
C2-4P Disk — The ultimate portable	16K RAM	$1464
C2-8P Single Disk — Ideal for education, advanced personal users, etc.	16K RAM	$1738
C2-8P Dual Disk — Most cost effective small business system	32K RAM	$2597

Challenger II Serial Interface Series

Same great features as Challenger IIP Series for those who have serial terminals: small business, education, industry.		
C2-0—Great starter for users with a terminal	4K RAM	$ 298
C2-1 — Great timeshare user accessory; cuts costs by running simple BASIC programs locally	4K RAM	$ 498
C2-8S — Highly expandable serial machine, can add disks, etc.	4K RAM	$ 545

Challenger III The Ultimate in Small Computers

The unique three processor system for demanding business, education, research and industrial development applications.		
C3-S1 — World's most popular 8″ floppy based microcomputer	32K RAM dual floppys	$3590
C3-OEM — Single package high volume user version of C3-S1	32K RAM dual floppys	$3590
C3-A — Rack mounted multi-user business system directly expandabe to C3-B	48K RAM dual floppys	$5090
C3-B — 74 million byte Winchester disk based system. World's most powerful microcomputer	48K RAM dual floppys	$11,090

OHIO SCIENTIFIC also offers you the broadest line of expansion accessories and the largest selection of affordable software!

Compare the closest Ohio Scientific Model to any other unit you are considering. Compare the performance, real expansion ability, software and price, and you will see why we have become the world's largest full line microcomputer company.

I'm interested in OSI Computers. Send me information on:

☐ Personal Computers ☐ Small Business Computers

☐ Educational Systems ☐ Industrial Development Systems

☐ I'm enclosing $1.00 for your 64-page small computer buyer's guide.

Ohio residents add 4% tax.

Name _____

Address _____

City _____

State _____ Zip _____

Phone _____

OHIO SCIENTIFIC
1333 S. Chillicothe Road
Aurora, Ohio 44202
(216) 562-3101

Ohio Scientific now offers you the world's most powerful portable personal computer in both BASIC-in-ROM and mini-floppy configurations.

C2-4P Mod 2 Standard Features:

- Minimally equipped with 8K BASIC-in-ROM, 4K RAM, machine code monitor, video display interface, cassette interface and keyboard with upper and lower case characters (Video monitor and cassette recorder optional extras.)
- The fastest full feature BASIC in the microcomputer industry.
- The C2-4P Mod 2 features the most sophisticated video display in personal computing with 32 rows by 64 columns of upper case, lower case, graphics and gaming characters for an effective screen resolution of 256 by 512 elements.
- The CPU's direct screen access, coupled with its ultra fast BASIC and high resolution, makes the C2-4P capable of spectacular video animation directly in BASIC.
- The C2-4P features computer "BUS" architecture. It internally utilizes a 4 slot backplane. Two slots are used in the base machine leaving 2 slots open for expansion.
- Comes fully assembled and tested. BASIC and machine code are always accessible immediately after powerup.
- A new high density static RAM board and two economical motherboard options give the C2-4P tremendous expansion capability without sacrificing portability.

The C2-4P offers the user mainframe performance in a portable package. This performance makes the C2-4P suitable for use in home computing, education, scientific and industrial research and small business applications.

Other small personal computers can satisfy the requirements of the computer novice, but no other personal portable can match the C2-4P in professional and computer enthusiast applications.

Yet the C2-4P and its accessories are priced only slightly above the mass marketed "beginner" or "home" computers.

For more information, contact your local Ohio Scientific dealer or the factory at (216) 562-3101.

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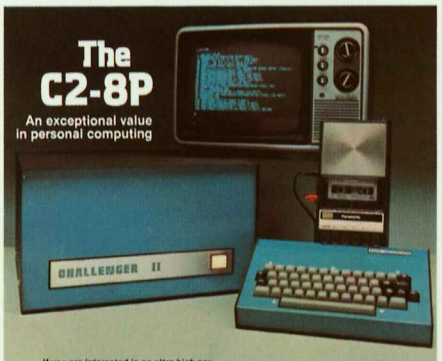

If you are interested in an ultra high performance personal computer which can be fully expanded to a mainframe class microcomputer system, consider the C2-8P.

Features:

- Minimally equipped with 8K BASIC-in-ROM, 4K RAM, machine code monitor, video display interface, cassette interface and keyboard with upper and lower case characters (Video monitor and cassette recorder optional extras.)
- The fastest full feature BASIC in the microcomputer industry.
- Boasts the most sophisticated video display in personal computing with 32 rows by 64 columns of upper case, lower case, graphics and gaming elements for an effective screen resolution of 256 by 512 elements.
- The CPU's direct screen access, coupled with its ultra fast BASIC and high resolution, makes the C2-8P capable of spectacular video animation directly in BASIC.
- Fully assembled and tested, 8 slot mainframe class microcomputer, six open slots for expansion. Supports Ohio Scientific's ultra low cost dynamic RAM boards or ultra high reliability static RAMs.
- The C2-8P can support more in case expansion than its four nearest competitors combined.
- The C2-8P is the only BASIC-in-ROM computer that can be directly expanded today to a complete business system with line printer and 8" floppy disk drives.
- It is the only personal class computer that can be expanded to support a Hard Disk! (CD 74)

The C2-8P is the fastest in BASIC, has the most sophisticated video display and is the most internally expandable personal computer. Therefore, it should be the highest priced?

Wrong. The C2-8P is priced considerably below several models advertised in this magazine. The C2-8P is just one of several models of personal computers by Ohio Scientific, the company that first offered full feature BASIC-in-ROM personal computers.

For more information, contact your local Ohio Scientific dealer or the factory at (216) 562-3101.

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The world's most powerful microcomputer system is far more affordable than you may think:

STANDARD FEATURES:

- 74 million byte Winchester technology disk drive yields mainframe class file access speeds and capacity.
- High level data file software makes high performance file structures like multikey ISAM easy to use.
- Triple processor CPU with 6502A, 6800 and Z-80 gives the programmer the best of all worlds in performance and versatility.
- The included 6502A based extended disk BASIC by Microsoft out-benchmarks every micro available, including 4 MHz Z-80 and LSI-11 with extended arithmetic.
- 48K of high reliability static RAM is standard.
- High density 8" floppys provide program and data mobility from machine to machine.
- Completely integrated mechanical system with UL-recognized power supplies; continuous duty cycle cooling; modular construction and rack slide mounted subassemblies.
- Based on a 16 slot Bus-oriented architecture with only 7 slots used in the base machine.
- Directly expandable to 300 megabytes of disk, 780K of RAM in 16 partitions, 16 communication ports, plus console and three printers.
- C3-B's have been in production since February, 1978, and are available now on very reasonable delivery schedules.

The C3-B was designed by Ohio Scientific as the state of art in small business computing. The system places its power where it's needed in the small business environment; in the data files. The C3-B's advanced Winchester technology disk, coupled with its smart controller and dedicated high speed memory channel, gives the C3-B data file performance comparable with today's most powerful maxi-computers.

Yet, the C3-B costs only slightly more than many floppy only computers but offers at least a thousand times performance improvement over such machines (50 times storage capacity multiplied by 20 times access speed improvement).

But what if your business client cannot justify starting with a C3-B? Then start with Ohio Scientific's inexpensive C3-SI floppy disk based system running OS-65U. When he is ready, add the CD-74 big disk and directly transfer programs and files from floppy to big disk with NO modifications.

That's upward expandability!

*Rack as shown above complete with 74 megabyte disk, dual floppys, 48K of static RAM, OS-65U operating system and one CRT terminal under $13,000.

Multiple terminal systems with printers and applications software are priced in the mid-20's.

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The OSI 48 Line BUS

OHIO SCIENTIFIC offers the broadest line of BUS compatible microcomputer boards. This line includes several new and exciting products which are not available anywhere else, such as a three processor CPU board, dual port memories and a multiprocessing CPU expander.

OHIO SCIENTIFIC has delivered approximately 100,000 boards based on our 48 line BUS and is now delivering thousands per week in 17 models of computers and dozens of accessories.

OHIO SCIENTIFIC'S BUS design incorporates high band width, high density and mass production technology to achieve a truly remarkable performance to cost ratio.

Here is just a sampling of the many OSI 48 BUS compatible boards available for the systems user, prototyper, OEM user and experimenter.

Product Description	Special Features	Power Supply Voltages Req'd	Board & Doc. Part #	Board & Doc. Price	Assembled Product Part #	Assembled Product Price
CPU						
• Challenger II CPU BASIC-in-ROM 6502 based CPU with serial I/O 4K RAM, machine code monitor	• Can use four 2716 EPROMS instead of BASIC or can be configured for disk	+5/−9	500	39.00	C2-0	298.00
• Challenger III CPU has 6502A, 6800 and Z80 micros, RS-232 serial port, machine code monitor	• 1 megabyte memory manager, software programmable vectors	+5/−9	510	NA	C3-0	490.00
• 560Z multi-processing CPU expander runs PDP-8, Z80 and 8080 code	• Runs concurrently with another OSI CPU	+5/−9	560Z	125.00	NA	NA
RAM						
• 16K static RAM (Ultra low power)	• 215NS access time automatic power down standby mode	+5/+12/−9	520	35.00	CM-3	498.00
• 8K static RAM (low cost)	• Expandable to 16K	+5	—	—	CM-7	198.00
• 16K static RAM (low cost)	• Can be expanded to dual port operation	+5	525	35.00	CM-8	339.00
• 24K static RAM (high density)	• 20 address bits	+5	527	35.00	CM-9	NA
• 4K static RAM (2102 based)	• Can be populated for 4K by 12 bits	+5	420	35.00	CM-2	125.00
• 16K dynamic (ultra low cost)	• Uses 4027 RAMS	+5/+12/−9	530	NA	CM-4	249.00
• 32K dynamic	• 20 address bits	+5/+12/−9	530	NA	CM-5	698.00
• 48K dynamic (high density)	• 20 address bits	+5/+12/−9	530	NA	CM-6	990.00
EPROM Boards						
• 8K 6834 EPROM board	• 16 line parallel port and on board programmer	+5/−9	450	35.00	NA	NA
• 4K 1702A EPROM board	• 16 line parallel port	+5/−9	455	35.00	NA	NA
I/O Boards						
• Audio Cassette interface Kansas City standard 300 baud	• Expandable to CA-7C	+5/−9	430	35.00	CA-6C	99.00
• RS-232 port board	• Expandable to CA-7S	+5/−9	430	35.00	CA-6S	99.00
• Combination audio cassette two 8 bit DACs, one fast A/D and 8 channel input mux	• Also Features 8 parallel I/O lines	+5/−9	430	35.00	CA-7C	399.00
• Combination RS-232 two 8 bit DACs, one fast A/D and 8 channel input mux	• Also features 8 parallel I/O lines	+5/−9	430	35.00	CA-7S	399.00
• 32 by 32 character video display interface	• Keyboard input port	+5/−9	440	35.00	NA	NA
• 32 by 64 character video display interface	• Upper/lower case graphics and keyboard port	+5	540	NA	CA-11	249.00
• 16 port serial board RS-232 and/or high speed synchronous	• 75 to 19,200 baud and 250K and 500K bit rates individually strappable	+5/−9	550	35.00	CA-10X	200.00 to 900.00
• Parallel (Centronics) Line Printer Interface	• With cable	+5/−9	470	NA	CA-9	249.00
• 96 Line Remote Parallel Interface	• Interface "Front End" remotable via 16 pin ribbon cable	+5	—	—	CA-12	249.00
• Voice I/O board with Votrax* module	• Fully assembled voice output, experimental voice input	+5/−9	—	—	CA-14	525.00
DISKS						
• Single 8" floppy disk, 250 Kbytes storage	• Complete with operating system software and disk BASIC	+5/−9	470	NA	CD-1P	790.00
• Dual 8" floppy disk, 500 Kbytes storage	• Complete with operating system software and disk BASIC	+5/−9	470	NA	CD-2P	1390.00
• 74 Million byte Winchester disk and interface	• Complete with OS-65U operating system	+5/−9	—	—	CD-74	6000.00
OTHER						
• 8 slot backplane board with connectors	• Can be daisy-chained to n-slots	—	580	39.00	NA	NA
• Prototyping board	• Handles over 40 16 pin IC's	—	495	29.00	—	—
• Card Extender	• With connectors	—	498	29.00	—	—

For more information, contact your local OHIO SCIENTIFIC Dealer or the factory at (216) 562-3101

COMPUTERLAND
17647 El Camino Real
Houston, TX 77058
(713) 488-8153

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1333 S. Chillicothe Road • Aurora, Ohio 44202

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