Explorer/85

Professional Computer Kit

By Netronics

Featuring The Advanced Intel 8085 CPU

(Uses All 8080A Software And Software Development Tools)

Start Running 8080A And 8085 Programs For Just $129.95!

Starting at just $129.95 for a Level "A" operating system, you can now build the exact computer you want. Explorer/85 can be your beginner's system, OEM controller, or IBM-formatted 8" disk small business system . . . yet you're never forced to spend a penny for a component or feature you don't want and you can expand in small, affordable steps!

Now, for just $129.95, you can own the first level of a fully expandable computer with professional capabilities—a computer which features the advanced Intel 8085 cpu, *thereby giving you immediate access to all software and development tools that exist for both the 8085 and its 8080A predecessor (they are 100% software compatible)* —a computer which features onboard S-100 bus expansion—plus instant conversion to mass storage disk memory with either 5-¼" diskettes or standard IBM-formatted 8" disks.

For just $129.95 (plus the cost of a power supply, keyboard/terminal and RF modulator, if you don't have them already), Explorer/85 lets you begin *computing* on a significant level . . . *applying* the principles discussed in leading computer magazines . . . *developing* "state of the art" computer solutions for both the industrial and leisure environment.

Like all Netronics products, each level of Explorer/85 is engineered to professional standards. Top quality components are used throughout. You are insured, year after year, of stable, reliable service.

And Netronics lets you build the system you want—with the exact components you want. You're never forced to spend a penny for an item you already have (*i.e., a power supply, RF modulator, keyboard, etc.*) in order to get a new feature or component you need.

No matter what your future computing plans may be, Level "A" is your starting point.

Level "A"

A Complete Single Board Computer For Just $129.95 With Onboard RAM/ROM/PROM/EPROM And S-100 Expansion Plus Prototyping Space!

Explorer/85's Level "A" system features the advance Intel 8085 cpu, an 8355 ROM with 2k deluxe monitor/operating system and an 8155 RAM-I/O, all on a single motherboard with room for RAM/ROM/PROM/EPROM and S-100 expansion, *plus* generous prototyping space.

For industrial controller applications (*Hex Keypad recommended*), customizing circuitry can be added to the empty prototyping areas of Explorer's motherboard. RAM up to 4k, ROM/PROM/EPROM up to 8k and S-100 expansion cards can also be added to the motherboard as your specific requirements dictate.

For data processing applications (*ASCII Keyboard/Terminal version recommended*), Level "A" can be expanded to accomodate two S-100 boards (Level "B" expansion) or a total of six S-100 boards in a card cage on Explorer's motherboard (Level "B" plus Level "C" expansion). All levels fit neatly inside Explorer's deluxe steel cabinet.

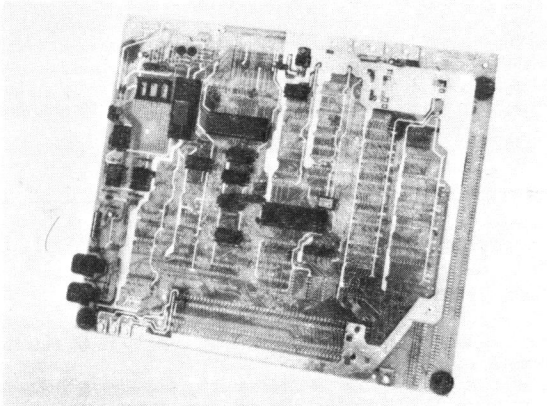
As a multitude of powerful and exciting accessories are all available on S-100 boards, S-100 expansion means that your Explorer/85 can quickly be developed into a professional data processing system with floppy discs, printers, remote terminals, etc.

8085 cpu The Intel 8085 cpu is a significant advance over the Intel 8080A which, since its introduction in 1971, has been an industry standard.

Advanced features of the 8085 include an operating speed 50% greater than that of the 8080A, simplified architecture and reduced need for support components.

The 8085 is 100% compatible with 8080A software. Since in any computer system the cost of software development far outweighs that of hardware, this is an ultra critical owner benefit, since 8080A software is already available by the ton for just about any purpose you might have in mind. All of it can be used with your Explorer/85.

The 8085 and the 8080A are compatible at the machine code level. This means that programs written for 8080A execution will run on the 8085 without modification. Even 8080A mask programmed ROMs will run without remasking. The 8085 uses the same mnemonics, thereby eliminating any need for operator retraining. Software libraries and software development tools available for the 8080A can be used with Explorer/85 without modification. (The 8080A and the 8085 are *not* pin compatible due to the 8085's integration of auxillary 8080A functions such as clock generation, system control and interrupt prioritization.



Level "A"

8355 ROM Explorer's Intel 8355 ROM includes a 2k deluxe monitor/operating system plus two programmable 8-bit bi-directional parallel I/O ports. The monitor features a cassette interface with tape control circuitry to allow the labeling of cassette files, and commands which include "display contents of memory," "run at user location (go to)," "change data," "insert data," "move contents of memory," "examine registers individually or all," a "fill" command to fill the contents of memory with any variable, automatic baud rate selection, programmable characters per line display output format, and a deluxe single step which allows register evaluation at each step . . . an excellent debugging and training feature.

8155 RAM-I/O Explorer's Intel 8155 RAM-I/O features 256 bytes of RAM, two programmable 8-bit bi-directional and one programmable 6-bit bi-directional I/O ports plus programmable 14-bit binary counter/timer.

Explorer/85 lets you start computing with a 100% 8080A software-compatible Intel

8085 cpu for just $129.95 (plus the cost of a power supply, keyboard/terminal and RF modulator, if you don't have them already).

You can use your Explorer/85 Level "A" to learn computer fundamentals and then expand it into either an industrial controller . . . or a professional data processing system with floppy disc drives, printers, terminals, etc.—all in easy steps!

Explorer/85 Level "A" Kit (ASCII Keyboard/Terminal version) $129.95
Explorer/85 Level "A" Kit (Hex Keypad/Display version) $129.95
Intel 8085 User's Manual ..... $ 7.50
Netronics 5 Amp Power Supply Kit (will power the entire Explorer/85 system plus the Netronics ASCII Keyboard/Terminal plus 8 volt S-100 cards) $39.95
Deluxe Steel Cabinet for Explorer/85 system $49.95

Level "A" Specifications

P.C. Board	13-¼" × 10-¾" glass epoxy, plated through holes with solder mask.
I/O	• Provisions for 25-pin (DB25) connector for terminal serial I/O, which can also support a paper tape reader. • Provision for 24-pin DIP socket for hex keyboard I/O. • Cassette tape recorder input. • Cassette tape recorder output. • Cassette tape control output. • Speaker output. • LED output indicator on SOD (serial output) line. • Printer interface (less drivers). • Total of four 8-bit plus one 6-bit I/O ports.
Crystal Frequency	6.144 MHz
Control Switches	Reset and user (RST 7.5) interrupt. Additional provisions for RST 5.5, 6.5 and TRAP interrupts onboard.
Counter/Timer	Programmable, 14-bit binary.
System RAM	256 bytes located at F800. Ideal for smaller systems and for use as an isolated stack area in expanded systems. RAM expandable to 60k via S-100 bus or 4k on motherboard.
Monitor ROM (ASCII Terminal Version)	2k bytes on deluxe system monitor ROM located at F000 leaving 0000 free for user RAM/ROM. Features include: • Tape load with labeling (so that Explorer/85 can locate your specific program automatically). • Tape dump with labeling. • Examine/change contents of memory. • Insert data (such as from a paper tape reader). • Change data at specific address. • Warm start (A feature which is especially helpful in debugging routines as it allows you to save the contents of the registers and memory.) • Examine and change all registers. • Single step with register display at each break point. • Go to execution address. • Move blocks of memory from one location to another. • Fill blocks of memory with a constant. • Display blocks of memory. • Automatic baud rate selection. • Variable line length control (1-255 characters/line) • Channelized I/O monitor addresses.
Monitor ROM (Hex Version)	• Tape load with labeling. • Tape dump with labeling. • Examine/change contents of memory. • Insert data. • Warm start. • Examine and change all registers. • Single step with register display at each break point. • Go to execution address.

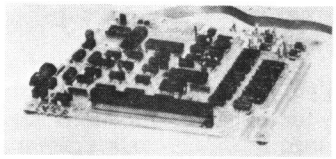
Level "B"

S-100 Signals plus buffers/drivers to support up to 6 S-100 bus boards!

The Level "B" Expansion Kit includes all parts plus 22 IC's with sockets. All mount on the Level "A" board. Features include—

- Address decoding for onboard 4K RAM expansion selectable in 4K blocks.
- Address decoding for onboard 8K EPROM expansion selectable in 8K blocks.
- Address and data bus drivers for onboard expansion.
- Wait state generator (jumper selectable), to allow the use of slower memories.
- Two separate 5V regulators to insure maximum stability and a noise free bus.

Level "B" Expansion Kit $49.95



Level "B"

Level "C"

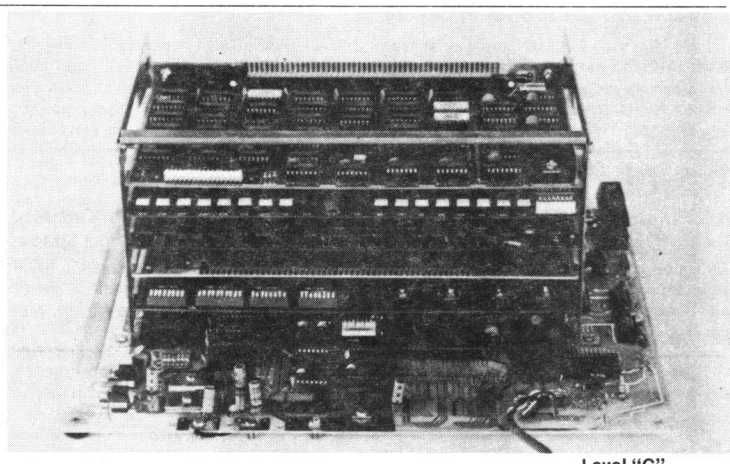
Up To Six S-100 Cards Will Now Fit Neatly Into Explorer/85's Steel Cabinet!

Level "C" expands Explorer/85's motherboard with a card cage so that a total of six S-100 cards can be plugged directly into the motherboard *and contained neatly inside Explorer/85's steel cabinet.*

Level "C" includes a sheet metal superstructure, a 5-card gold plated S-100 extension pc board which plugs into the motherboard, 12 card guides and all brackets and hardward needed for complete assembly. It will support up to six S-100 cards *plus* an optional test socket that allows testing and maintenance of *both* sides of any individual S-100 card under operating conditions. Just add as many S-100 connectors as you need.

Level "C" is required only if you plan to use 3 or more S-100 cards with your Explorer/85.

Explorer Level "C" Expansion Kit $39.95



Level "C"

Level "D"

Add 4K Static RAM to Explorer/85's Motherboard!

Level "D" provides 4K or 2114 RAM, power supply regulation, filtering decoupling components and sockets to expand your Explorer/85 memory to 4k, plus the original 256 bytes located in the 8155A.

The 2114 static RAM is organized as 1024 words by 4-bits using N-channel Silicon-Gate MOS technology. The 4K RAM can be located anywhere from 0000 to EFFF in 4K blocks.

Level "D" expansion requires Level "B" plus +8VDC @ 600 MA (unregulated).

Explorer Level "D" Expansion Kit $69.95

Level "E"

EPROM Expansion

Level "E" adds sockets for 8k of EPROM using the Intel 2716, the TI 2516 or their ROM equivalents. Kit includes sockets, power supply regulator, heat sink, filtering and decoupling components.

These sockets may also be used for soon to be available RAM. MEMR and MEMW signals are available for this purpose. *EPROMS not included.*

Requires Level "B" kit plus +8VDC @ 700 MA (unregulated).

Explorer Level "E" Expansion Kit $5.95

8k Microsoft BASIC

For Explorer/85!

On cassette tape, the most versitile and popular BASIC every written! Microsoft BASIC has become an industry standard and Netronics makes it available to you with complete documentation for your Explorer/85.

8k Microsoft BASIC for Explorer/85 on cassette tape $64.95
8k Microsoft BASIC for Explorer/85 in ROM Kit (requires Levels "B," "D," and "E") $99.95

PEEK Before You POKE!

Both Level "B" and Level "D/E" Assembly Manuals for Explorer/85 are available, *without* your having to buy the complete Level "B", Level "D" and Level "E" kits. Since you'll almost certainly be wanting to expand Explorer/85 (unless you are buying the single board Level "A" for a controller application), these manuals show you what to expect.

Level "B" Assembly Manual $3.50*
Level "D/E" Assembly Manual $3.50*

*Credited toward purchase of kit.

Hex Keypad/Display

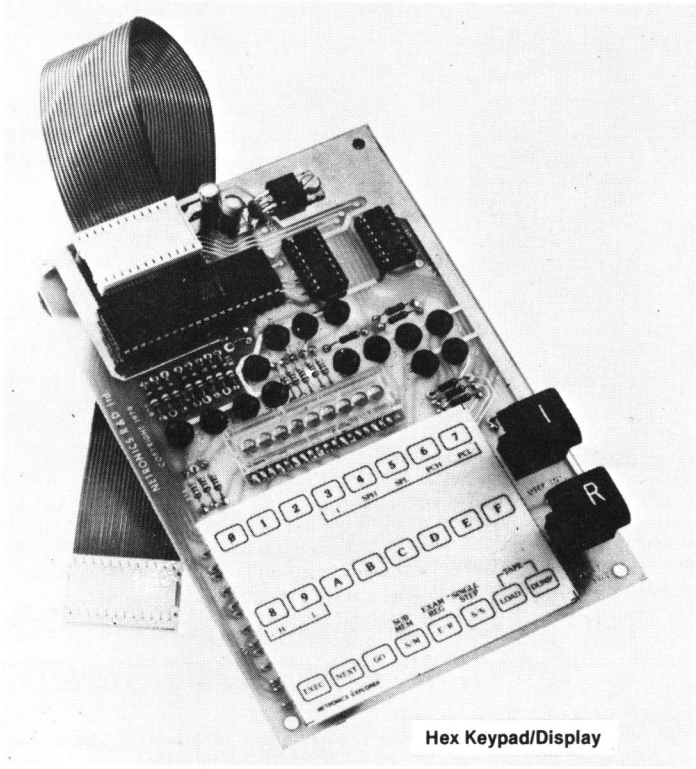
Perfect For Controller Applications!

The Netronics Hex Keypad/Display is perfect for controller applications in that both the keys and display can be mounted remote from the pc board to give you the ultimate in flexibility for custom installations. Includes 24-pin cable required to attach keypad to Explorer/85 motherboard.

Netronics Hex Keypad Kit $69.95

Specifications

PC Board	Glass epoxy 4-1/2″ × 6-3/4″ plated thru holes.
Keys	Calculator type with 24 system-defined and 16 user-defined.
User Interrupt and Reset Switches	Can be mounted either on motherboard or on keypad.
Display	6-digit calculator type. Displays full address plus data, as well as register and status information.
Power Requirement	+8VDC unregulated (supplied from motherboard Level "A").
Display and Keyboard Controller	P8279
Power Supply Regulation	Separate, for maximum stability.
Interconnecting Cable	12″ cable with 2 dual 24 pin dip connectors.
Mounting	Keypad and display may be mounted remote from the pc board to allow maximum design flexibility in controller application.
Monitor Functions	• Examine/change memory contents. • Single step with register review—possible at each breakpoint. • Execute programs or subroutines upon command. • Examine/change register contents. • Go to any address and execute program. • Tape dump-record programs on tape with address boundries and label. • Tape Load-Load system RAM from tape with label. • RST 5.5, 6.5, 7.5 interrupts are directed directly to monitor. • Warm start (register save input). • Error indicator-illustrates illegal key or tape load error.



Hex Keypad/Display

Netronics ASCII Keyboard/Terminal

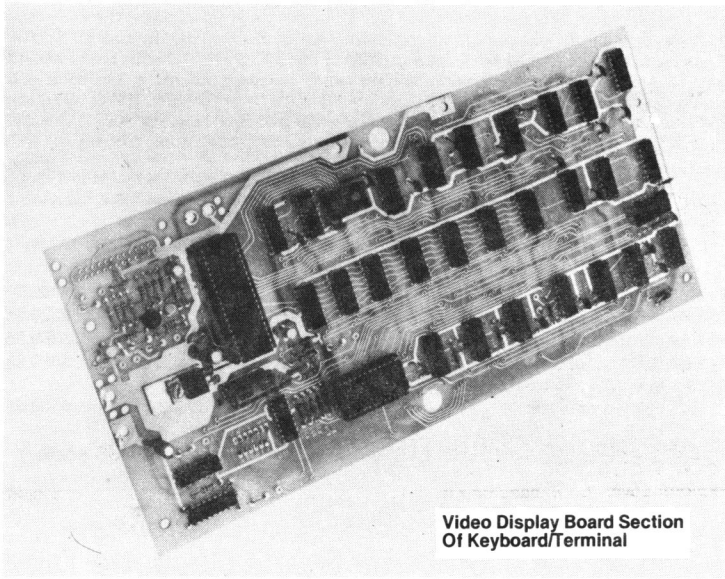
Microprocessor controlled, the Netronics stand-alone terminal requires no computer memory or software. It gives you a choice of either a 64 or 32 character by 16 line professional display format with selectable baud rate, RS232-C or 20 ma. output, full cursor control and 75 ohm composite video output. The only additional hardware required is a power supply (such as the Netronics Heavy Duty 5 Amp Power Supply which can power both your Explorer/85 and Netronics Keyboard/Terminal) and a video monitor, or RF modulator/TV set combination.

The ASCII keyboard follows the standard typewriter configuration and generates the entire 128 character ASCII upper/lower case set with 96 printable characters.

The keyboard/terminal requires no I/O mapping. It includes 1k of memory, character generator, processor controlled cursor control and parallel ASCII/Baudot to serial conversion, as well as serial to video processing—all with crystal controlled accuracy. PC boards are glass epoxy and first class in every way.

Netronics ASCII Keyboard/Terminal Kit $149.95

Deluxe Steel Cabinet for Netronics Keyboard/Terminal $19.95

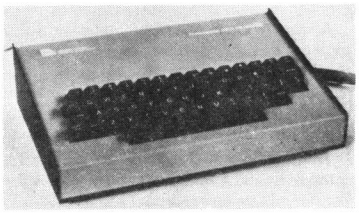


Video Display Board Section Of Keyboard/Terminal

Terminal Specifications

Keyboard Section

- Full 128 character ASCII set.
- 2 key rollover.
- Upper and lower case.
- Selectable parity.
- Shift lock key.
- G-10 glass epoxy printed circuit board.
- Alpha lock jumper (permits upper case only operation).



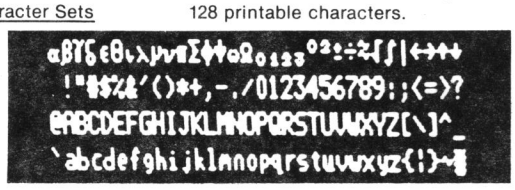
ASCII Keyboard/ Terminal

Video Display Section

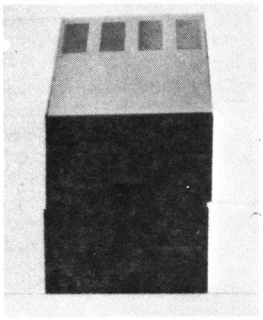
The Netronics ASCII Keyboard/Terminal includes the Netronics Video Display Board (VID) which was designed to be connected to a parallel ASCII or Baudot signal source. The VID converts the parallel data to serial data which is then formated to either RS232-C or 20MA current loop output which can be connected to the serial I/O on your computer or other interface, i.e. Modem.

When connected to a computer, the computer must echo the character received. This data is received by the VID which processes the information, converting the data to video suitable to be displayed on a TV set (using an RF modulator) or on a video monitor. The VID generates the cursor, horizontal and vertical sync pulses and performs the housekeeping relative to which character and where it is to be displayed on the screen.

Video Output	1.5 P/P into 75 ohm (EIA RS-170).
Baud Rate	110 and 300 ASCII 45.45 and 74.2 Baudot
Outputs	RS232-C or 20MA current loop.
ASCII Character Sets	128 printable characters.



Baudot Character Set	A B C D E F G H I J K L M N O P Q R S T U V W X Y Z - ? : * 3 $ & # ( ) . , 9 0 1 4 ! 5 7 ; 2 / 6
Cursor Modes	Home, Backspace, Horizontal Tab, Line Feed, Vertical Tab, Carriage Return. Two special cursor sequences are provided for absolute and relative X-Y cursor addressing.
Cursor Control Functions	Erase, End of Line, Erase End of Screen, Form Feed, Delete.
Monitor Operations	50 or 60Hz (jumper selectable).



North Star

Double Density Floppy Disc Kit

With Personalized Operating System For Explorer/85 Lets You Run Business & Industrial Programs Immediately!

Complete with personalized operating system for Explorer/85, this North Star double density system features a Shugart SA-400 minifloppy disc drive that will access 180k bytes of on-line information. Also included is a three-drive S-100 controller which allows you to expand your floppy disc system with two additional drives.

Both the North Star BASIC and DOS have been upgraded to accomodate this increased capacity. Yet they can run existing programs with little or no change. And, the system still supports single density, so that you may use all of your old single density diskettes.

Best of all, the operating system on this professional North Star floppy has already been customized specifically for Explorer/85. Just plug this North Star floppy into your Explorer/85 and you're ready to run business and industrial programs—*immediately!*

North Star Double Density Floppy Disc System Kit for Explorer/85, includes one double density Shugart SA-400 minifloppy, controller board and power regulation $699.95

Power Supply Kit $39.95

Deluxe Cabinet $39.95

Specifications

S-100 compatible. MFM encoding, 35 tracks with ten 512-byte sectors per track. 179,200 bytes on double density SA-400. North Star BASIC, DOS and System Monitor included.

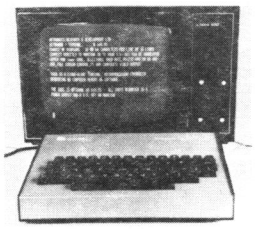
Video 100 12″ Professional Monitor

Ideal for both hobby computers and business systems. Features include 12″ diagnol video display, composite video input, compatibility with all computer systems in addition to Explorer/85 and features solid state circuitry for a sharp, stable picture.

12″ Video Monitor, wired and tested $139.95

SPECIFICATIONS

Video bandwidth	12 MHZ ± 3 db.
Input impedance	75 ohms.
Resolution	650 lines minimum in central 80% of CRT; 550 lines minimum beyond central 80% of CRT ref EIA RS-375.
Dimensions	11-3/8″ high, 16-1/4″ wide, 11-1/4″ deep (excluding video input connector.)
Weight	14.3 lbs. (6.5 kg).



intel

8085 User's Manual

An Absolute "Must" For Every Explorer/85 Owner!

All the in depth information you need to make your relationship with Explorer/85 more meaningful. This excellent 8085 User's Manual by Intel explains the 8085 cpu, its system support components, peripherals, static RAMs, ROMs and EPROMs. Each element is described both conceptually in plain English and with the complete technical specifications you'll want to keep handy for ready reference. The book also traces the development of the 8085 from the 8008 (1971) to the 8080 (1973) up to the 8085 which provides advanced performance while utilizing existing 8080 software. Profusely illustrated with diagrams, graphs, charts and photographs. 579 pages.

Intel 8085 User's Manual (for Explorer/85) $7.50

16k Dynamic RAM Kit

Expandable to 64k on one S-100 board in 16k increments, designed for NO wait state operation utilizing the most advanced RAM controller.

16k RAM Kit $199.95

32k RAM Kit $329.95

48k RAM Kit $589.95

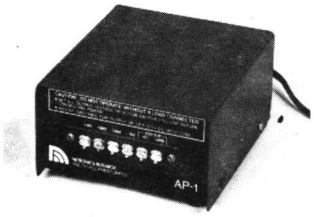
64k RAM Kit $589.95

16k RAM Expansion Kit (to expand any of the above up to 64k, in 16k increments) $139.95

Gold Plated S-100 Bus Connectors, $4.85 each

For Your Convenience . . .
Now Available From Netronics—
Computer Grade Cassette Tape
10 minutes per side. 1 for $1.90 3 for $5.00

Heavy Duty 5 Amp Power Supply



The Netronics Heavy Duty 5 Amp Power Supply gives your Explorer/85 the reliability and stability required for optimum performance. All components are the highest quality. It will provide ±8 volts at 5 amps (unregulated) and 7 volts AC for timing and other power applications.

The heavy duty unit is fused and includes a 25 amp rectifier and selector switches which allow you to compensate for varying line voltage and load conditions. A deluxe steel cabinet is included.

Netronics 5 Amp Power Supply Kit $39.95

RF Modulator

Use Your TV Set For A Video Monitor!

Using this handy RF Modulator kit you can connect your Explorer/85 with Netronics ASCII Keyboard/Terminal directly to the antenna terminals of your TV set so that your TV becomes a video monitor with professional 32 character by 16 line display format.

RF Modulator Kit $8.95

An Introduction To Microcomputers, Vol. O

The Beginner's Book, By Adam Osborne

If you're not yet familiar with computers, or if you need to brush up on the fundamentals to make your "hands on" computing more meaningful, this is the standard introductory text and it will get you on track in a hurry.

Osborne is both a master of plain writing and a brilliant engineer and he easily guides you through computer logic and terminology in language that even the absolute beginner can understand without difficulty.

You'll be introduced to computer software, hardware and component parts along with simple explanations of how each works. You'll learn binary, octal and hexidecimal number systems, computer logic, addressing, etc. The text is supplemented with hundreds of illustrations and photographs. 300 pages.

Introduction To Microcomputers, Vol. O $9.50

#1 Best Selling Computer Text!

An Introduction To Microcomputers, Vol. 1
Basic Concepts, by Adam Osborne

A worldwide best seller! Osborne's *Basic Concepts* is a must for anyone who owns (or who would like to own) a computer. Hardware and programming concepts common to all microcomputers are explained including memory organization, instruction execution, interrupts, I/O, instruction sets and assembly programming. If you haven't already discovered the value of this powerful reference text from reading a friend's copy, you'll be delighted to find that here at last is a text that truly makes computer fundamentals easily understandable. 350 pages.

Introduction To Microcomputers, Vol. 1 ..... $9.50

8080/8085 Assembly Language Programming

Published by Osborne & Associates

This is probably the best beginner's guide to assembly language programming that has ever been written and the entire text applies specifically to the Explorer/85. It grounds you in the classical assembly language programming techniques and gives you simplified hands on examples that you can demonstrate with Explorer/85. 400 pages.

8080/8085 Assembly Language Programming $9.50

Netronics Research & Development, Ltd.
333 Litchfield Road, New Milford, CT 06776

TO PLACE AN ORDER
CALL TOLL FREE
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To Order From Connecticu
And All Other Calls
Call (203) 354-9375

Price List—Summer/Fall 1979
Please send the items checked below—

- ☐ **Explorer/85 Level "A" Kit** (Terminal Version), **$129.95** plus $3 p&h.
- ☐ **Explorer/85 Level "A" Kit** (Hex Keypad/Display Version), **$129.95** plus $3 p&h.
- ☐ **8k Microsoft BASIC on cassette tape, $64.95 postpaid.**
- ☐ **8k Microsoft BASIC in ROM Kit** (requires Levels "B," "D," and "E"), **$99.95** plus $2 p&h.
- ☐ **Level "B" (S-100) Kit, $49.95** plus $2 p&h.
- ☐ **Level "C" (S-100 6-card expander) Kit, $39.95** plus $2 p&h.
- ☐ **Level "D" (4k RAM) Kit, $69.95** plus $2 p&h.
- ☐ **Level "E" (EPROM/ROM) Kit, $5.95** plus 50¢ p&h.
- ☐ **Deluxe Steel Cabinet for Explorer/85, $49.95** plus $3 p&h.
- ☐ **ASCII Keyboard/Computer Terminal Kit, $149.95** plus $2.50 p&h.
- ☐ **Deluxe Steel Cabinet for ASCII Keyboard/Terminal, $19.95** plus $2.50 p&h.
- ☐ **Hex Keypad/Display Kit, $69.95** plus $2 p&h.
- ☐ **Power Supply Kit** (±8V @ 5 amps) in deluxe steel cabinet, **$39.95** plus $2 p&h.
- ☐ **Gold Plated S-100 Bus Connectors, $4.85 each, postpaid.**
- ☐ **RF Modulator Kit** (allows you to use your TV set as a monitor), **$8.95 postpaid.**
- ☐ **16k RAM Kit** (S-100 Board expands to 64k), **$199.95** plus $2 p&h.
- ☐ **32k RAM Kit, $329.95** plus $2 p&h.
- ☐ **48k RAM Kit, $459.95** plus $2 p&h.
- ☐ **64k RAM Kit, $589.95** plus $2 p&h.
- ☐ **16k RAM Expansion Kit** (to expand any of the above in 16k blocks up to 64k), **$139.95** plus $2 p&h each.
- ☐ **Intel 8085 cpu User's Manual, $7.50 postpaid.**
- ☐ **Special Computer Grade Cassette Tapes, $1.90 each or 3 for $5, postpaid.**
- ☐ **12" Video Monitor, $139.95** plus $5 p&h.
- ☐ **North Star Double Density Floppy Disk Kit** (One Drive) for Explorer/85, **$699.95** plus $5 p&h.
- ☐ **Power Supply Kit for North Star Disk Drive, $39.95** plus $2 p&h.
- ☐ **Deluxe Case for North Star Disk Drive, $39.95** plus $2 p&h.
- ☐ **Experimenter's Pak** (see reverse side of order form), **$199.90 postpaid.**
- ☐ **Student Pak** (see reverse side of order form), **$319.85 postpaid.**
- ☐ **Engineering Pak** (see reverse side of order form), **$514.75 postpaid.**
- ☐ **Business Pak** (see reverse side of order form) **$1599.40 postpaid.**
- ☐ **Level "B" Assembly Manual** (price credited toward purchase of kit), **$3.50 postpaid.**
- ☐ **Level "D/E" Assembly Manual** (price credited toward purchase of kit), **$3.50 postpaid.**
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