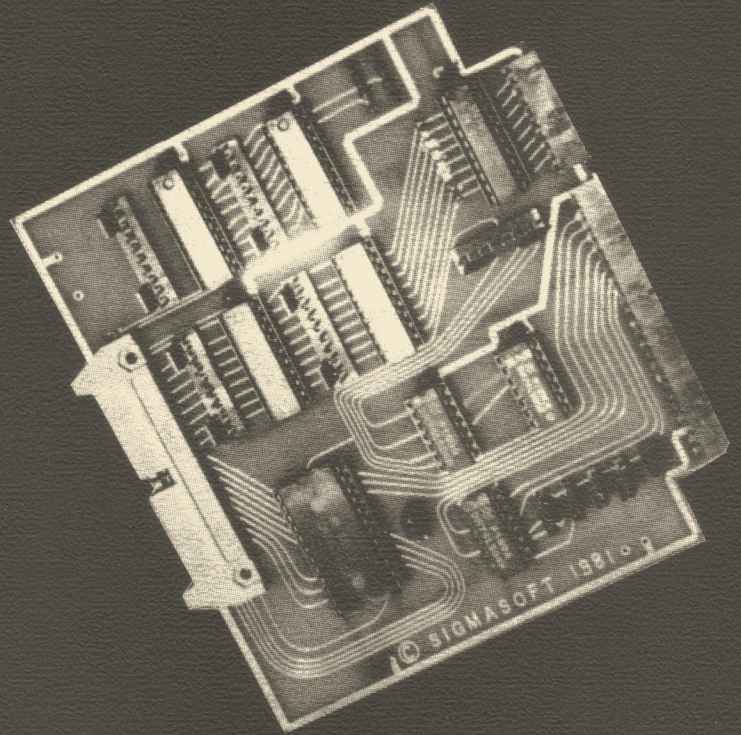


# At Last . . .

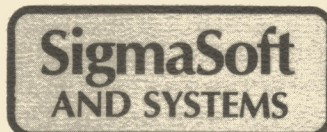
## Complete Support for Your Printer!



SigmaSoft and Systems is proud to announce the most complete line of products ever to support the use of printers, printer graphics, joysticks, trackballs, and many other special devices with the H/Z89 computers! With our products you can interface all of these devices for fast arcade type games, interactive graphics control, and fantastic printed graphics.

All of this is possible with the SigmaSoft Universal Parallel I/O Board. Simply plug this interface into your H/Z89 computer and you can connect all of these devices easily to your system, without spending a lot of money. Parallel interfacing is much faster, more reliable, easier to use, and less expensive than serial interfaces. Moreover, nobody can match the features of the Universal Parallel Interface from SigmaSoft and Systems.

"Support is the most important feature."



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## The Interface

The advanced SigmaSoft Universal Parallel I/O Board plugs into one of the bus slots on the left side of the H/Z89 and is equipped with its own port decoding circuitry. This means that you do not sacrifice any of those all important bus slots on the right side of your H/Z89, or any of your three serial ports. Furthermore, this port decoding circuitry allows you to select the port addresses from which the board operates. No other parallel interface has these features.

In addition the board features two full Centronics parallel interfaces so that you can connect any two devices simultaneously, such as two printers, two joysticks, two trackballs, or a combination of devices. Plug two or three Universal Parallel I/O Boards into the H/Z89 at the same time, for up to six devices!

## Installation

Installation is quick and easy. Simply plug the board and control cable into the CPU Board of your H/Z89 computer with no soldering or modifying!

SigmaSoft and Systems also offers a variety of cables to simplify the connection to printers and many other devices. These cables include one- and two-piece Centronics parallel cables using the standard 36 pin Centronics connector. The two-piece Centronics cable mounts to one of the 25 pin D subminiature holes on the H/Z89 backplate, for an elegant connection to your printer. Use our adapter cable to interface any digital Atari compatible joystick or trackball. These inexpensive devices are available from any video retail store and add a whole new dimension to arcade type games, and interactive graphics on the H/Z89!

## Software Support

As for support software, no one else even comes close. For both HDOS and CP/M SigmaSoft offers device drivers that will operate any printer with a Centronics parallel input (Epson, Okidata, C. Itoh, IDS, Star Gemini, NEC 8023A, MPI, and others). For the Epson/Graftrax printers SigmaSoft offers graphics drivers that feature complete H/Z19 emulation.

The EP: and ES: (Epson Parallel and Epson Serial device drivers respectively) are the most advanced Epson graphics drivers ever created for use with the H/Z89. These drivers process all important escape code functions of the H/Z19, such as graphics and inverse print modes, cursor movement functions including direct cursor addressing, and erasing and editing functions. With this full emulation you can easily print all graphics and text files on your Epson/Graftrax printer just as they appear on the screen of the H/Z89!

Other features of EP:/ES: include full compatibility with all existing H/Z19 graphics software, and many special set options. Create your own graphic characters and symbols to be printed in documents.

All SigmaSoft device drivers feature a Help set option that displays a set option summary with status. Redefine the printer initialization sequence, handshaking sequences, and other options to make the drivers compatible with a large variety of printers and interfaces. Compatibility includes serial ports, the Heath/Zenith Multifunction I/O Card, and most other parallel interfaces, as well as the Universal Parallel I/O Board.

For more information, or print samples please write or give us a call, we would be glad to help.