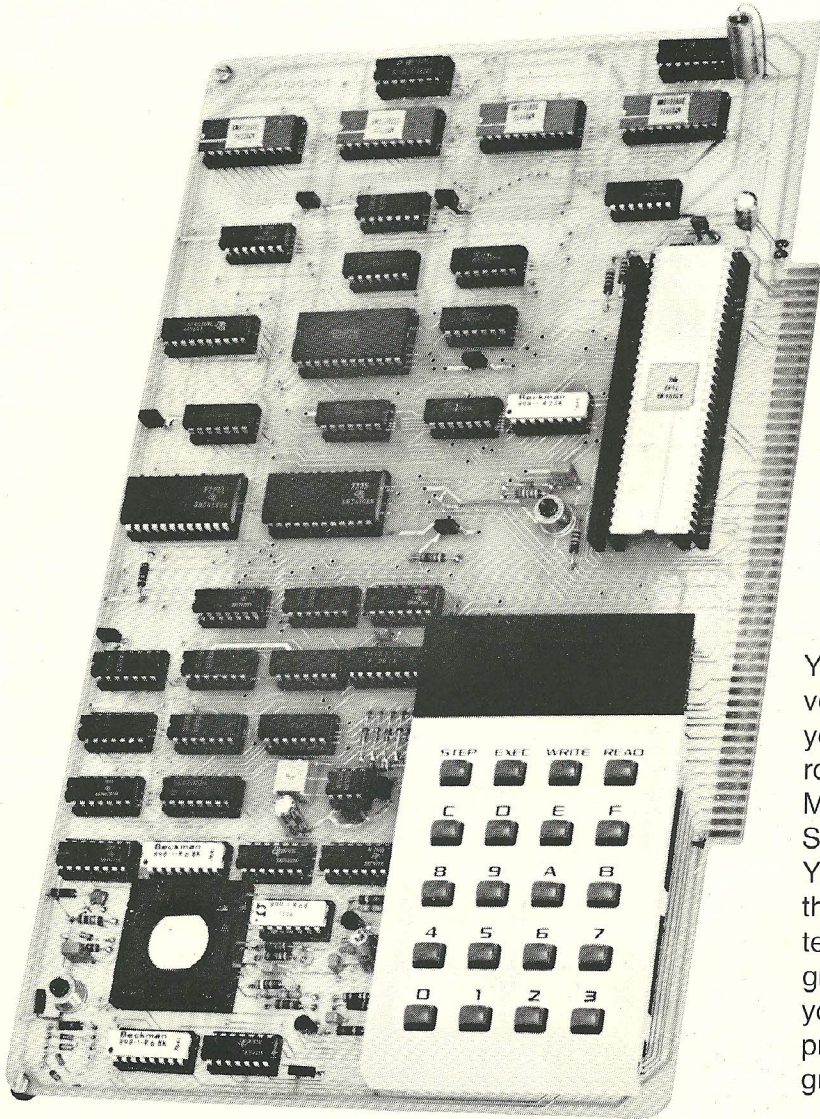


NOW . . . with a Rockwell \$495
XPO-I System Development
Microcomputer You Can Customize
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Your Million Dollar Product . . .



XPO-I

PPS-4/1 SYSTEM DEVELOPMENT MICROCOMPUTER

You buy XPO-1 as an effective system development microcomputer. It's furnished with your choice of a PPS-4/1 one-chip microcomputer Development Circuit (MM76, MM77 or MM78) and a device containing the Supervisory (Utility/Debug/Monitor) program. You use XPO-1 to: 1) familiarize yourself with the capabilities of the PPS-4/1 microcomputer; 2) develop and debug your software program; 3) exercise this program in real time on your prototype equipment; 4) modify your program as necessary; 5) produce your program as a ROM mask tape.

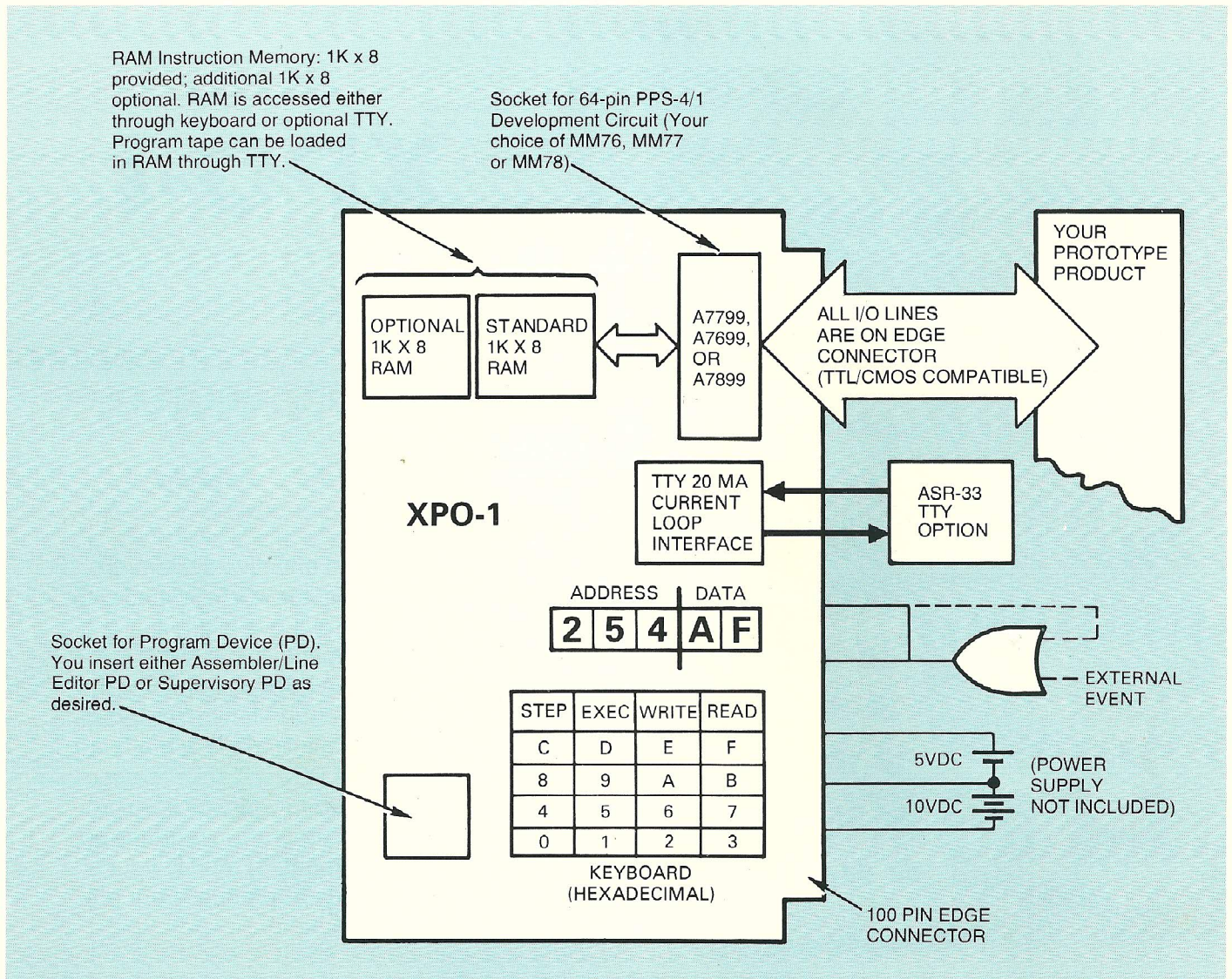
XPO-I — Self-Contained, Tested

One PC board: CPU, RAM, I/O, clock, keyboard, display; tested, ready to use; supplied with XPO-I Instruction Manual, PPS-4/1 Programmer's Manual and PPS-4/1 Product Description.



Rockwell International

This XPO-I Functional Diagram Shows You the Power of the PPS-4/1 System Development Microcomputer . . .



Three XPO-I Models Currently Available

XPO-I MODEL	INCLUDED SYSTEM DEVELOPMENT DEVICES	PRICE, EACH
XPO-I/76	MM76 Development Circuit (A7699), Supervisory PD (A7800)	\$495
XPO-I/77	MM77 Development Circuit (A7799), Supervisory PD (A7800)	\$495
XPO-I/78	MM78 Development Circuit (A7899), Supervisory PD (A7800)	\$495

PART NUMBER	SYSTEM DEVELOPMENT DEVICES	PRICE, EACH
A7699	MM76 Development Circuit	\$ 45
A7799	MM77 Development Circuit	\$ 55
A7899	MM78 Development Circuit	\$ 65
A7806	MM76 Assembler/Editor Program Device (PD)	\$100
A7807	MM77 and MM78 Assembler/Editor PD	\$100
A7800	Universal PPS-4/1 Supervisory PD	\$ 50

(NOTES: PPS-4/1 Development Circuits are identical to production versions, but have no ROM. Special internal leads connect to external instruction memory (RAM). Program Devices (PD) are specially programmed PPS-4/1 microcomputers. You need buy only one XPO-I model to get the board for all three PPS-4 families. You can quickly see what additional devices you must purchase for other families.)

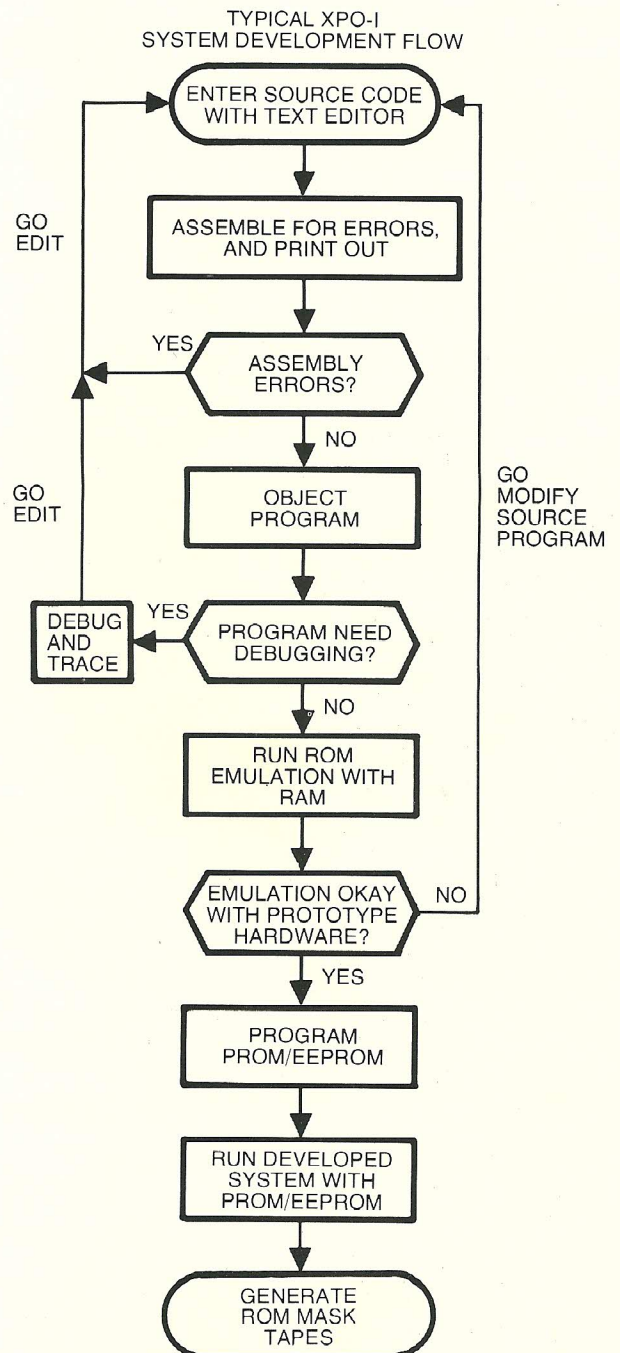
XPO-I Has Powerful System Development Functions:

Supervisory (Utility/Debug/Monitor) Program

By providing this program in the ROM of a PPS-4/1 one-chip microcomputer, the following functions are controlled: *Keyboard and display control*: for most operations, the display shows current address in hexadecimal code and data contained at the indicated address. *TTY control*: including reading, punching and verifying binary tapes. *Program Execution*: sets up to 12 addressed breakpoints and allows single step or real time program execution; displays and alters Data RAM, Instruction RAM and CPU registers; allows program execution to continue from breakpoint.

Assembler/Line Editor Program

Again, by providing this program in a PPS-4/1 ROM, a large number of functions are effectively controlled: controls the TTY and RAMs during assembly and edit; allows symbolic source and provides a binary object output; accepts up to seven character symbols (1K bytes in Symbol Table with optional expansion to 2K bytes); during edit, you can copy, delete, or insert changes or additions on a line basis.



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