Vector Graphic's MZ is an advanced Z-80 microcomputer designed for exceptional system reliability and versatility. Its superior quality is based on standard features usually found only in minicomputers. The MZ has four times the disk storage capacity of most other micros with built-in floppies — 630K bytes formatted and 48K byte random access memory — easily expandable to 56K. With its 18-slot motherboard, all Vector Graphic circuit boards can be utilized even as technological advances occur. Vector Graphic's MZ microcomputer is the lowest cost system commercially available that offers so many standard features.
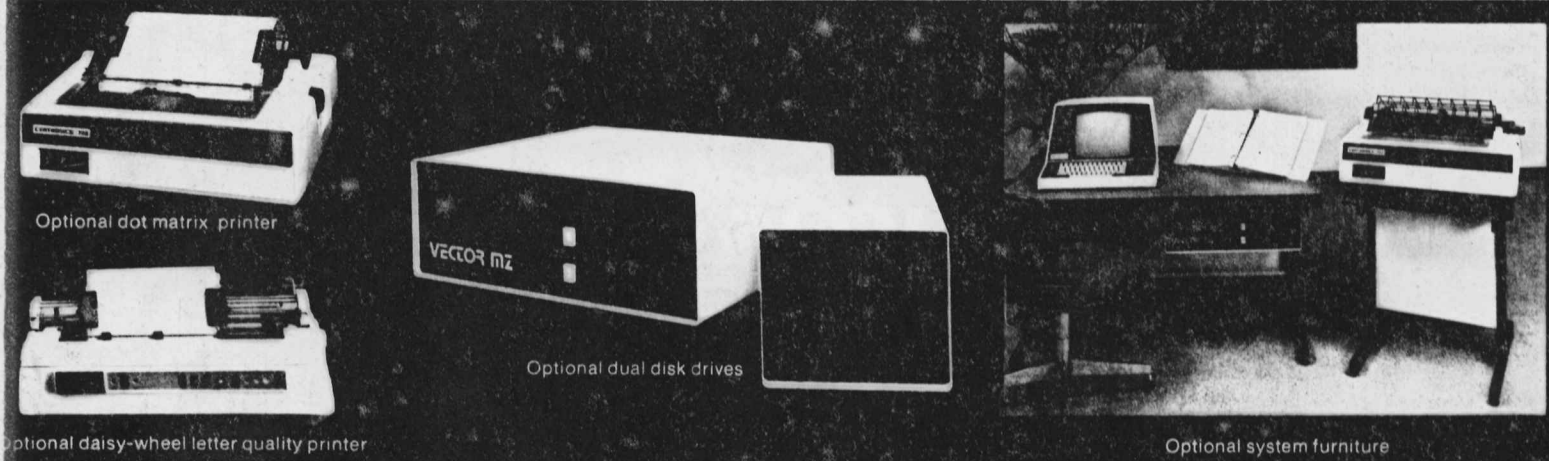
The Vector MZ Microcomputer

CONTINUUM
COMPUTERS

RESET

POWER

VECTOR MZ

System B

The Vector MZ microcomputer is the heart of the new multi-function SYSTEM B — Vector Graphic's Mindless Terminal completes the most practical system alternative to the stand-alone display monitor and keyboard/printer. Its applications are limitless because the SYSTEM B can perform all standard accounting functions as well as word processing tasks. The MT accepts separate TTL video and sync, and interfaces with most existing alpha-numeric display boards. When used with the Flashwriter II 80 X 24 video board, it provides instantaneous positioning of the cursor, split screen copy, immediate copy access and upper/lower case characters. The 12" monitor projects character-by-character reversed video, reduced intensity and block graphics for unmatched versatility in custom programming.

Optional dot matrix printer

VECTOR MZ

Optional dual disk drives

Optional daisy-wheel letter quality printer

Optional system furniture

MZ SPECIFICATIONS: Standard Model

MAINFRAME

Bus	S-100 compatible
Slots	18
Power Supply	+8 Vdc @ 22 A; ±16 Vdc @ 4 A
Cooling	55 CFM
Size	W 20⅛", H 7-7/16", D 16¼"
Weight	50 lbs.

CPU

Processor	Mostek Z-80A (MK-3880N)
Number of Data Bits	8
Number of Address Bits	16
Instructions	158-including all 78 instructions (8080A)
Clock	2 or 4 MHz Jumper selectable
Power Requirements	+8 Vdc @ .750 A (Typ)
Interrupts	All three Z-80 modes
I/O Devices	256 Input/Output Addresses

MEMORY (PROM)

Capacity	12K bytes PROM/EPROM
	1K bytes Static RAM
Speed	Static RAM — 450 ns
	PROM — User Selected; (Typ 450 ns)
Memory Type	PROM — 2704 or 2708; RAM — 2102 Static
Addressing	8K blocks on 8K boundaries; Jumper selectable
Power Required	+8 Vdc @ 450 mA (Typ)
	+16 Vdc @ (Depends on qty. of PROM)
	-16 Vdc @ (Depends on qty. of PROM)

I/O

PORTS	1 Serial, 2 Parallel
Serial Port	
Signal Levels	EIA RS-232, 20 mA Current Loop, TTL
Data Rate	Asynchronous 110-9600; BPS (Switch selectable)
Controller	8251 Programmable; USART
Data Bits, Stop Bits	5-8 Programmable; 1, 1½, 2 Programmable
Parallel Port	
Signal Level	TTL (Input — 1 TTL Load)
No. of Lines	16 Output; 16 Input; 2 Control
Data Transfer Rate	>100K bytes/second

MEMORY (RAM)

Capacity	48K bytes
Type	16K Dynamic RAM
Access Time	Compatible with Z-80 at 4 MHz
Power Required	+8 Vdc @ 250 mA (Typ); +16 Vdc @ 200 mA; -16 Vdc @ 10 mA
Phantom	Output Buffer Disable

FLOPPY DISK

Drive	Two Micropolis MOD II
Storage	630K bytes
Format	5 1/4" 16 Hard Sectors, 77 Tracks

SOFTWARE

OPERATING SYSTEM	Micropolis MDOS, including 20K Extended BASIC Editor, Z-80 Assembler and Debugger
	Pre-configured routines for Qume, Centronics, Teletype and similar printers

SYSTEM B: Includes the Above Plus the Following

VIDEO: Flashwriter II Board

Screen Format	24 lines of 80 characters
Character Matrix	8 X 10 upper & lower case
Video Output	Conforms to RS-170 levels
Keyboard Port	8 bits & latched strobe
PROM	1K/2K PROM location available
Power Required	+8 Vdc @ 1.1 A; +16 Vdc @ 70 mA; -16 Vdc @ 40 mA

MINDLESS TERMINAL

Screen Size	12" diagonal CRT
Resolution	900 lines at center
Keyboard	60 keys, capacitance type with numerical keypad & cursor control

ADDITIONAL SOFTWARE

	Micropolis CP/M by Lifeboat Associates
	Vector Graphic MZOS Disk Operating System (Software-compatible with North Star DOS)

OPTIONAL FEATURES

Precision Analog (Board)	
Output Channels	2
Input Channels	8
Resolution	1 part in 4096
Conversion Time	360 us for full 12-bit conversion
Control Ports	1 Input Port; 5 Output Ports
Power Required	+8 Vdc @ 200 mA; +16 Vdc @ 40 mA; -16 Vdc @ 70 mA
DAC	Analog Devices; AD 563J/Bin converter
DAC Setting Time	1.2 us

HIGH RESOLUTION GRAPHICS (BOARD)

Video Output	Composite video — conforms to RS-170
Resolution	Digital: 256H X 240V; Grayscale; 128H X 120V
Monitor Required	Standard raster scan
Memory	Vector Graphic 8K; Static RAM board; (not included)
Power Requirement	+8 Vdc @ 750 mA (Typ)

VECTOR GRAPHIC INC.

MODEL	SYSTEMS	RETAIL
SB	System B	$4750.00
VMZ	Vector MZ	3750.00

MODEL	STARTER SYSTEMS	RETAIL
V1-18A	Vector Mainframe	$ 575.00
RM	Rackmount	225.00
MPS	Modular Power Supply	125.00

MODEL	INTERFACE BOARDS	RETAIL
Z80	Z-80	$ 215.00
I/O	Bitstreamer I/O	195.00
I/O II	Bitstreamer I/O II	235.00
MB	Motherboard with 18 connectors	175.00
AI	Analog Interface	115.00
PA	Precision Analog	390.00
GR	High Resolution Graphics	235.00
VD	Video Digitizer	175.00
FW 64	Flashwriter Video 64 X 16	235.00
FW80 UC	Flashwriter Video 80 X 24 upper case only	295.00
FW80 U/LC	Flashwriter Video 80 X 24 upper and lower case	320.00

MODEL	PROM/RAM BOARDS	RETAIL
PR1	PROM/RAM, 1702	$ 129.00
PR2	PROM/RAM, 2708	175.00

CONTINUUM COMPUTERS

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