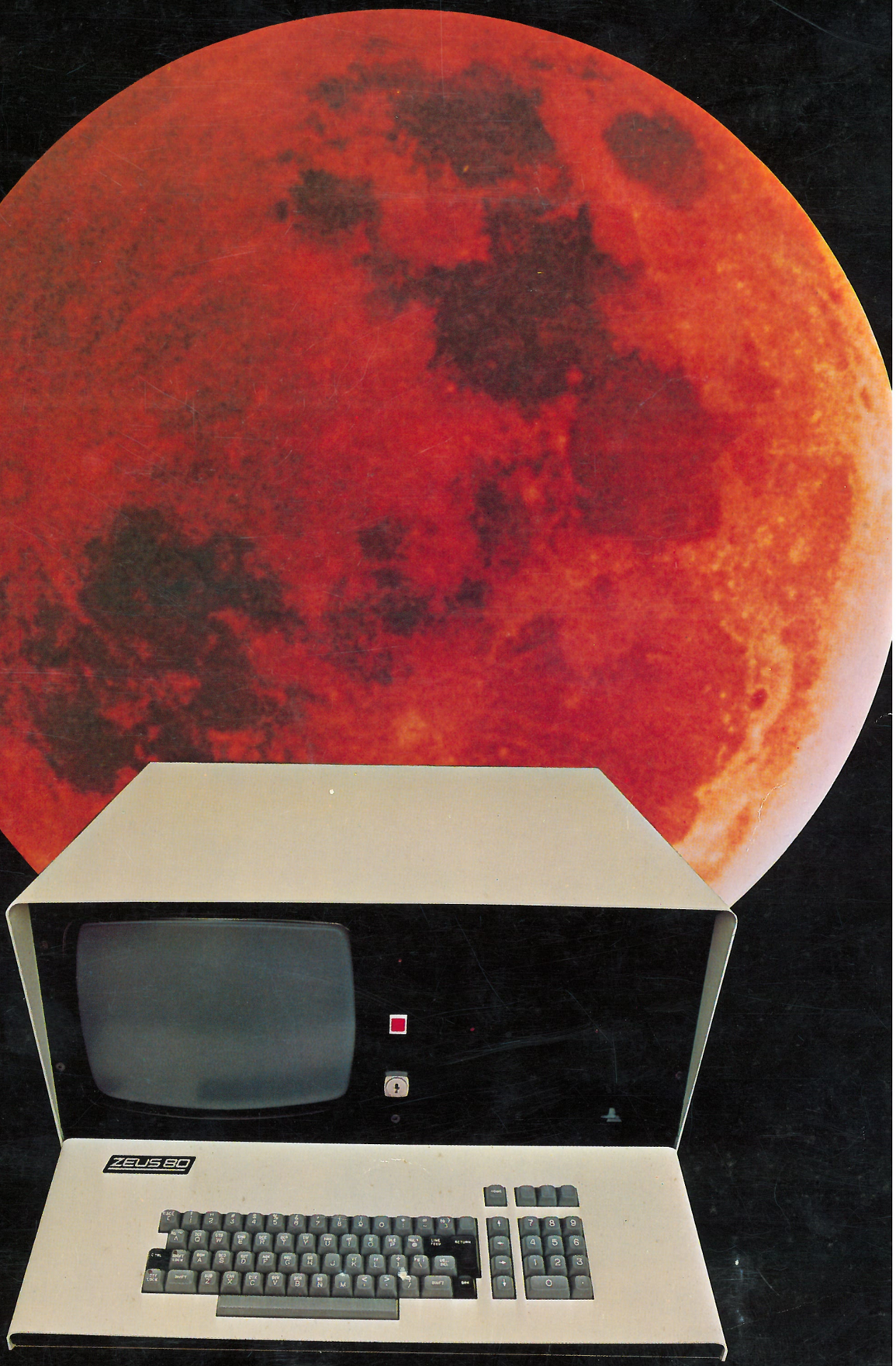
ZEUS 80® ZEUS 80® ZEUS 80® ZEUS 80® ZEUS 80



The ZEUS 80® State-of-the-art Business Compute

The ZEUS 80® is a new, gene purpose computer, truly repres ting latest state-of-the-a advances in Microprocessor te nology. The ZEUS 80® utilizes Z80A Microprocessor chip, w both parallel and serial input/out (I/O) interfaces. The entire syst was designed as a stand-alone co puter to be used to process a business function, includi WORD PROCESSING, INVE TORY CONTROL, PAYROI AND GENERAL ACCOUNTI ETC.

Video Display

The **CRT** displays a full upper and lower case character set on a sharp 7x9 dot matrix, with full 24 line by 80 character screen. The 12" soft green phosphor screen, together with the hooded display, (to cut glare and increase privacy), lessens eye fatigue, and below the line character descenders make reading easier. The total effect is designed to maximize operator productivity.

Standard Operating System

The CP/M* operating system provides the most flexible applications packages from a wide variety of specialist software houses. Packages include complete general ledger and accounting, scientific and business uses, as well as specific, individually written programs. In addition the System will support languages such as FORTRAN, PASCAL, CBASIC, ALGOL, COBOL, MBASIC and APL.

Modular Unit can be used as a desk top model or neatly placed in a standa filing cabinet drawer.

Appearance

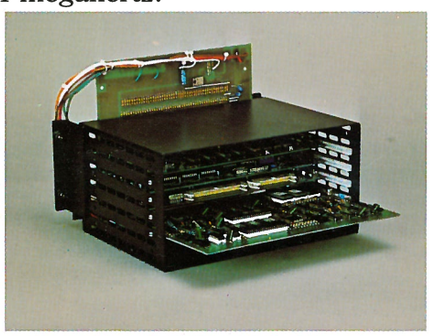
The complete package is housed in an aesthetically designed unit that will blend with any office environment.

Switching Power Supply

Brown-out protection is provided by the heavy duty power supply, an important consideration. This unit also protects against over current and over voltage through full regulation on all voltages. The power supply is designed to operate at 110 volts 60 cycles or 230 volts 50 cycles.

Central Processor

The heart of the ZEUS 80® is the industry standard Z80 operating at 4 megahertz.



Four S-100 modules handle all system functions ensuring minimum downtime.

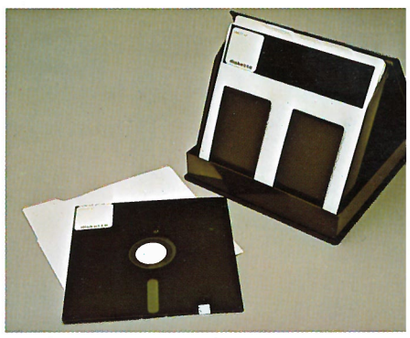
Typewriter Keyboard

Electronic Keyboard With Special Keys and Numeric Keypad

The high quality, Typewriter style keyboard is fully debounced (to ensure that a character is printed only once each time a key is depressed). In addition it provides N-key rollover (each key stroke is recorded however many keys are depressed simultaneously). Continuous depression of a key invokes auto repeat, causing a character to be repeated until the key is released. An 11-key numeric keypad is standard, to assist operator input of numeric data together with 4 programmable special function keys.

Information Storage

The floppy disc is an extrem low cost, versatile and relial medium for storing and retrievi



Large Data Storage on Small Floppy Discs for Ease of Access

data in large volumes at exc tionally rapid rates, making it id for use in almost all business ap cations. The two 8" floppy d drives incorporated into t ZEUS 80® are dual sided, doul density, providing the system w up to 2.2 megabytes of on-l storage (equivalent to about 1 straight hours of typing at 70 wo per minute). Diskettes may reused and can easily be correct or updated.

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Systems Concept

The ZEUS 80® was designed with future expansion capabilities built in. The System will support a wide range of additional devices including character printers, line printers and word processing, communications via a telephone connection and hard discs up to and including 1200 megabyt Memory and I/O capabilities m also be expanded and additio functions added using IEEE S-1 BUS compatible expansion boar

System Features

- Fully Integrated Computer in a Single Cabinet.
- High Speed Z80A Processor
- 24x80 Video Display
- 12" Soft Green Phosphor Scree
- Dual 8" Floppy Disc System
- Double Density/ Dual Sided Diskettes
- Full Upper/Lower Case ASCII Keyboard
- N-Key Rollover
- Auto Repeat (Keyboard)
- 11-Key Numeric Keypad
- Full Cursor Control Keys
- 4 Programmable Keys
- Heavy Duty Power Supply
- RS232C Port
- Centronics† Parallel Port
- 64K RAM Memory
- 2K ROM Memory
- IEEE S-100 BUS

Physical Dimensions

- Weight: . . . . . 55 lbs/25 kg
- Width: . . . . . 24 inches/60 cm
- Depth: . . . . . 27 inches/67 cm
- Height: . . . . . 13 inches/33 cm

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Environment

- Standard Office

Electrical Requirements

- 60 Hz; 115 VAC, 10% of nominal
- 50 Hz; 230 VAC, 10%of nominal
- 150 watts nominal

CPU Characteristics

- Z80A Processor
- IEEE S-100 BUS
- 158 Instruction Set
- Interrupts
  - Maskable
  - Non-Maskable
  - Fully vectored

Memory Characteristics

- Expandable in 16K Pages
- Transparent Refresh
- Access Time 200 ns

Serial Communications

- Asynchronous
- RS232C
- 75–19200 Baud Rates:

Parallel Interface

- Centronics† Protocol

Keyboard

- 64 Key Standard
- 4 Additional Special Keys
- N-Key Rollover
- Fully Debounced
- Auto Repeat
- 11 Key Numeric Pad
- Full Cursor Keys

Physical Characteristics

- Desk top design

Disc Storage Characteristics

- Dual 8" Floppy Disc System
- Dual-sided, Double Density Disc
- IBM 3740 Format Compatible
- Soft Sectors
- Rotational Speed 360 rpm
- Transfer Rate 500 kbps.
- Latency 83 ms, average
- Access Time 91 ms. average
- MTBF 6000 Power-on Hrs.

CRT

- 12" P31 Phosphor
- 1920 Char. Display
- 7x9 Dot Matrix
- True Char. Descenders
- Special Attributes
  - Blinking
  - Reverse
  - Underline
  - Intensified
  - Combinations of Above

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*CP/M is a Registered Trademark of Digital Research Corporation
†Centronics is a Registered Trademark of Centronics Data Computer Corporation