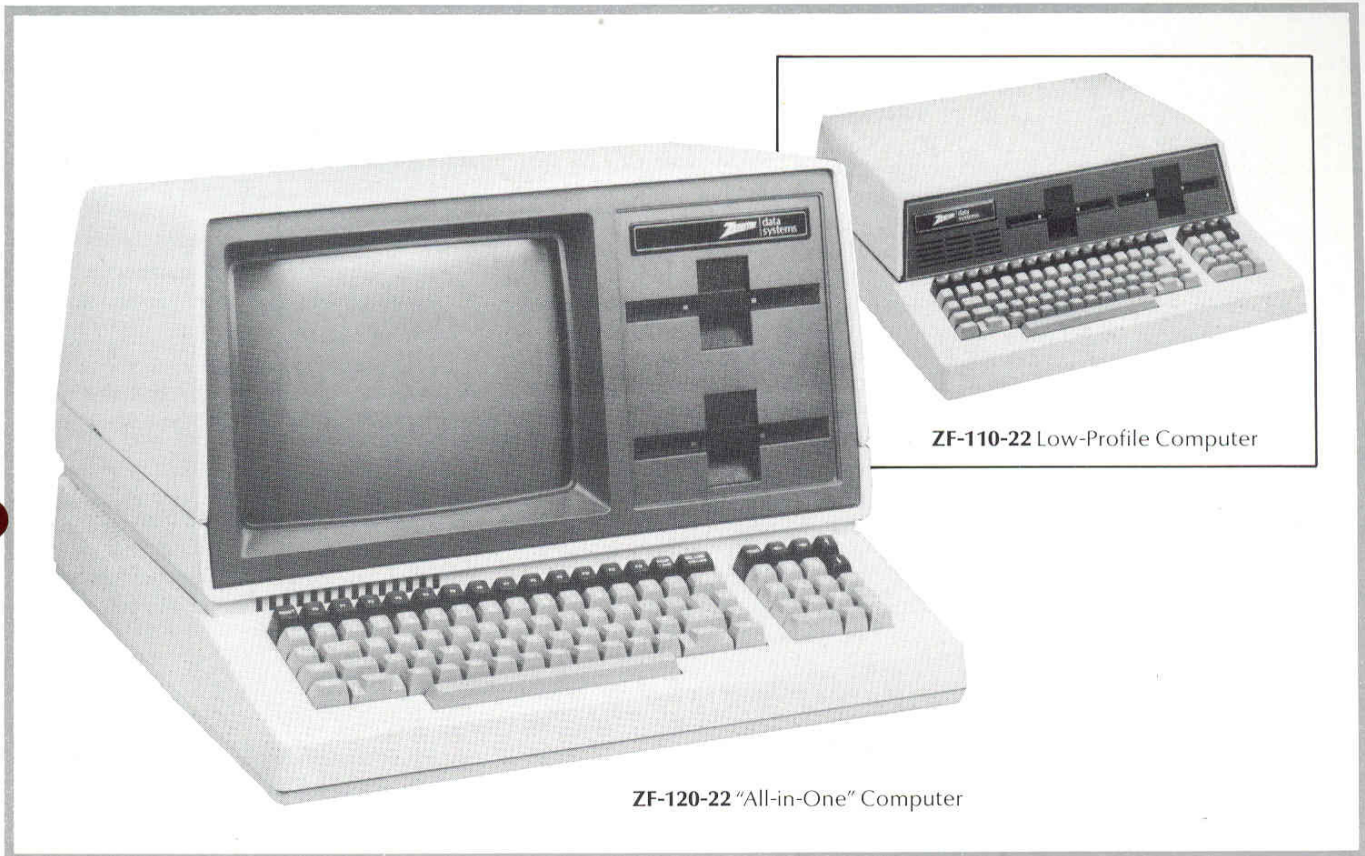


Z100 SERIES 16-BIT DESKTOP COMPUTERS



ZF-120-22 "All-in-One" Computer

ZF-110-22 Low-Profile Computer

Z100 SERIES FEATURES BOTH 8-BIT AND 16-BIT MICROPROCESSORS, EXPANDABLE STORAGE, AND MORE

Zenith's new Z100 series of 16-bit desktop computers has as standard features both 8-bit (8085) and 16-bit (8088) microprocessors, a five slot S100 expansion chassis, choice of either two built-in 320K byte 5.25" diskette drives or 5 megabyte Winchester drive plus floppy backup, 128K bytes of RAM expandable to 768K bytes, high resolution colour graphics – with control of eight colours – with pixel resolution of 144,000 dots.

By using both 8-bit and 16-bit processors the Z100 series enables current users of 8-bit microcomputers to run currently available 8-bit software from two to ten times faster while, at the same time, giving them access to upgrade to the memory and power of a 16-bit computer,

LOW PROFILE AND "ALL-IN-ONE" VERSIONS AVAILABLE. Two microcomputers are available in the range, the Z-110, a "low profile" computer less than seven inches high, and an "all-in-one"

version, the Z-120, with built-in green monochrome video display.

WIDE RANGE OF APPLICATIONS. ZDS see the market for desktop computer systems as having four major segments – small business, large companies and service organizations, professionals and original equipment manufacturers.

The small business segment will be attracted by the Z100's ability to run existing 8-bit CP/M based business management and word processing software plus an ability to run future 16-bit software that will soon become available to run on 8088 machines, such as the IBM personal computer.

Large companies will be attracted by the Z100's asynchronous and bisynchronous communication capability which makes it compatible with mainframe computer systems.

An appealing feature to the professional and OEM market segments will be the IEEE

696 expansion chassis (S100 bus), which enables the computer to be connected to any standard connection.

DIGITAL COLOUR OR RGB OUTPUT IS STANDARD. A feature of interest to all is the high resolution, 8 colour, colour graphics. Zenith software gives control of 640 x 225 dot matrix display. Using video interlace this can be increased to a 640 x 500 matrix. Digital colour or RGB output is standard on all versions of the Z100. The low profile version also has monochrome composite video output.

OPERATING SYSTEM SOFTWARE. The Z100 series will operate under both CP/M85 and ZDOS operating systems. ZDOS, developed by Microsoft under the MS-DOS name and also known as IBM's PC-DOS, makes most software developed for the IBM personal computer available to the Z100. CP/M86, giving multi-user and CP NET capability, will be available before the end of 1982.

ZENITH

data
systems

Z-110/Z-120 SPECIFICATIONS

Two versions of the Z100 series of desktop computers are available: an "all-in-one" computer with video display, the Z-120; and a low profile colour computer with no monitor, the Z-110.

Both have 128K RAM with dual internal 5.25" diskette drives. A 5.25" Winchester will be available in place of one of the diskette drives.

CPU AND MEMORY

Processors: 8088 16-bit microprocessor. 8085 8-bit microprocessor.

Memory: 128K bytes of dynamic RAM, expandable to 192K on main board. Internal parity check standard. Expandable to 768K bytes RAM using 5100 cards.

DISPLAY

Display Format: 24 lines of 80 characters, plus 25th "user information" line. 225 lines of 640 dots.

Character Set: 128 characters.

Character Type: 8 x 9 character block. Upper and lower case. Can be defined to other values using software.

Colour: Red, green, blue, white, black, cyan, magenta and yellow. Colour memory RAM standard in Z-110, optional in Z-120.

Cursor: Blinking, underline or reverse video.

Cursor Addressing: Relative and direct.

Tab: 8-column, software addressable.

Video: Choice of normal and reverse video by character.

Video Output: Z-120: RGB. Z-110: RGB, monochrome composite video.

CRT (Z-120 only): 12" diagonal. Green phosphor, non-glare. Character size: 0.2"H x 0.1"W.

STORAGE

Disk Controller: Standard Z207 controller, supporting both 5.25" and 8" drives (simultaneously).

Diskette Drives: Dual 5.25" floppy disk drives, 48 tracks per inch, double-sided, double-density.

Capacity: 320K bytes per diskette, 640K total storage.

Tracks: 40 per side.

8" Drive: Optional, external. Single- or double-density, single- or double-sided.

Winchester Drive: 5.25" drive with 5 megabyte capacity.

KEYBOARD

General: Sculptured typewriter style with 108 keys. Audible key click. Power on indicator. Enlarged "Return" and "Enter" keys.

Editing Keys: Insert, delete character. Insert, delete line.

Cursor Controls: Up, down, left, right, home, carriage return, line feed, back space, tab.

Numeric Keypad: 18, including cursor control keys.

Special Function Keys: 13.

EXPANSION

Five IEEE 696 (S100) standard card slots for expansion. Disk controller occupies one S100 slot.

INPUT/OUTPUT PORTS

Serial I/O: Two EIA RS-232 ports, at 110 to 38,000 baud. Accessible from rear of unit. Mode: Asynchronous, full or half duplex; synchronous.

Parallel I/O: Centronics-compatible printer port with a 25-pin D connector, accessible from rear of unit.

POWER

Power Requirements: Operates from 120/240 volts at 50/60 Hz, 400 watts maximum.

Power Supply: Switching mode power supply.

PHYSICAL

Case: Structural foam, white and brown cabinet.

Dimensions: Z-110 (low-profile): 7.125"H x 19"W x 19.5"D (181 x 483 x 495 mm). Z-120 (all-in-one): 13.5"H x 19.5"W x 19.5"D (343 x 495 x 495 mm).

Weight: Z-110 (low-profile): 40lb (18.2Kg). Z-120 (all-in-one): 50lb (22.7Kg).

OPERATING TEMPERATURE

Operating Range: 15°C to 30°C.

ORDER NO.

ZF-100-21 Low-Profile Computer with one 5.25" disk drive for 320K on-line bytes, no colour graphics.

ZF-110-22 Low-Profile Computer with two 5.25" disk drives for 640K on-line bytes and colour graphics board.

ZF-120-22 "All-in-One" Computer with two 5.25" disk drives for 640K on-line bytes and built-in green monochrome video display, colour graphics optional.

Z-100 Software Starter Package: On soft-sectored, double-sided, double-density, 48 tpi 5.25" disks. Includes Z-DOS and CP/M-85 Operating Systems, Microsoft BASIC Interpreter, the Z-BASIC Colour Extension of Microsoft BASIC and Microsoft's Multiplan Spreadsheet (below).

ZFS-100-1

Z-DOS 16-Bit Operating System: Z-DOS (also known as Microsoft MS-DOS and IBM PC-DOS) lets you run advanced programs (like Multiplan, Microsoft BASIC and Z-BASIC) – and many IBM PC programs – on the Z-100. Has device-independent I/O, advanced error recovery, variable-length records and full program relocatability.

OS-63-4

CP/M-85 8-Bit Operating System: Use of CP/M-85 on the Z-100 makes use of many current 8-bit software programs possible. Has capabilities of CP/M-80, and features fast running speed.

OS-53-2

Microsoft BASIC Interpreter: Requires Z-DOS Operating System above.

MS-253-1

Z-BASIC Colour Language: An extension of Microsoft BASIC above, using the Z-100's full colour capabilities. Requires Z-DOS Operating System above.

MS-463-1

Microsoft Multiplan Electronic Spreadsheet: A personal productivity tool that helps you analyze data. A powerful modelling and planning tool, Multiplan can help you do corporate budgeting, make product planning and sales decisions, plan investments, ... and more. Requires Z-DOS above.

MS-463-7

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