

Z-248

**For the Department
of Defense**



The cost-effective,

high performance

Z-248 delivers speed,

power and AT, PC, XT

compatibility

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systems

THE QUALITY GOES IN BEFORE THE NAME GOES ON®

The Zenith Tradition of Quality Continues with the DOD Z-248





Compatibility, power, value

Given the extensive library of software and peripherals developed for IBM's family of personal computers, compatibility with these products has become an important consumer standard in the selection of a computer system.

In response to consumer needs and criteria, Zenith Data Systems designed the Z-248 to be compatible with many computer systems including: IBM PC, IBM XT, and IBM AT. The standard DOD Z-248 configuration offers complete compatibility with Zenith's Z-150 and Z-120 computers.

Speed to please

Put speed at your fingertips with the Z-248 from Zenith Data Systems. Based on the 80286 microprocessor, the Z-248 operates more than twice as fast as a standard PC with an 8088 microprocessor. For computational applications, Zenith Data Systems offers an optional 80287 microprocessor.

Loaded with popular features

Don't be fooled by the stylish, compact design of the Z-248. Beneath the sleek exterior are cards that include 2 serial ports, 2 parallel ports, an enhanced graphics adapter, and either 512K or 1.1MB standard RAM. There are five open expansion slots (four on the 1.1MB machine). These expansion slots provide virtually unlimited potential for memory cards, communication cards, and more.

Flexible to meet your growing needs

Put the speed, power and compatibility of the Z-248 to work for one user using MS-DOS® (included).

Then, as your requirements expand, realize the extensive potential of the Z-248 by adding terminals to create a multi-user environment. Use the Xenix™ operating system or hook the Z-248 up to a network and share data with other users. These are available as options. In addition, terminal emulation products can be used on any Z-248 computer. They enable your Z-248 to connect with widely used mainframe computers at any time and operate exactly as terminals on those systems.

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Zenith Data Systems DOD Z-248 Specifications

Processor: High performance Intel 16-bit 80286, 8MHz, OPTIONAL 80287 microprocessor.

Memory: 512K of Dynamic RAM in the Basic and Intermediate systems; 1.1MB in the Advanced System; Internal parity check standard; expandable using Z-405A and Z-415 to over 3MB.

Operating Systems: Microsoft MS-DOS 3.2 supplied with computer.

Video: Enhanced Graphics Adapter Card produces 640(H) x 350(V)

Video Characteristics: Smooth scroll, jump scroll, support for 4 character fonts, software cursor, "no-flicker display"; Text display 20%-500% faster than PC video.

Drives: Basic System: Two 5.25" 360K double sided/double density floppy disk drives; Intermediate System and Advanced System: One 5.25" 360K double sided/double density and 20MB 85 millisecond Winchester disk drive.

Keyboard: Detachable low-profile to conform with DIN standards; 6 ft. coiled cord expandable to 9 ft.; 10 function keys; 17 keypad keys; 57 alphanumeric; caps lock, NUMERIC LOCK and SCROLL LOCK are lit; audible click on each keypress; auto-repeat with rate advance.

Cursor: Blinking underline or reverse.

Cursor Controls: Up, down, left, right, home, end, page up, page down.

Cursor Addressing: Relative or direct.

Tab: 8 column tab.

Edit Function: Insert and delete character or line. (Application software dependent.)

Erase Function: Erase line: erase to beginning of line; erase to end of page; erase to end of line. (Application software dependent.)

Bell: Audible alarm in receipt of the ASCII BEL command.

Clock: Continuous running real-time clock with LITHIUM battery.

Diagnostics: Automatic power-on with LED indicators. ROM-based user-invoked LED display. Software, menu driven user friendly.

I/O PORTS

First Serial Port—Asynchronous (COM1):

Male DB9 EIA RS-232C connector; asynchronous RS-232C compatible.

User software selectable: Number of start bits—1; Number of data bits—5, 6, 7, or 8; Number of stop bits—1 or 2; Baud rate—110, 150, 300, 600, 1200, 2400, 4800, 9600 and 19,200. Signals controlled—transmit data, request to send data, terminal ready. Supports both full and half duplex operation, odd, even or null parity.

Second Serial Port—Asynchronous/synchronous (COM3):

(COM3 port requires special application software available on contract)

ASYNCHRONOUS CHARACTERISTICS:

Number of data bits: 7 or 8 bits

Number of start bits: 1

Number of stop bits: 1 or 2

Parity: odd, even or none

The start, stop and parity bits are automatically put on the line in proper sequence.

Communication rates: 300, 1200, 2400, 4800, 9600, and 19,200 bits per second.

RS-232C signals controlled: transmit data; request to send.

RS-232C signals monitored: receive data, clear to send, data set ready, carrier detect.

ASCII character code; DB-25 pin male connector.

SYNCHRONOUS CHARACTERISTICS:

Synchronization character hardware generator (enable/disable). Synchronization characters purged by hardware (enable/disable).

Parity: odd, even or none.

Communication rates: 1200, 2400, 4800, 9600, and 19,200 bits per second.

RS-232C signals controlled: transmit data; request to send, data terminal ready, transmit clock (enable/disable).

RS-232C signals monitored: receive data, clear to send, data set ready, carrier detect, receive clock.

ASCII character code; DB-25 pin male connector.

Parallel Ports: Two Centronics compatible bidirectional parallel ports with 25 pin female D-connectors accessible from the rear of the unit.

PRINTER COMPATIBILITY

Printers: Printers compatible with Z-248 and supported by both hardware and software include: ALPS P2000G; MPI 99, 150, 350; DIABLO 630; XEROX C150, C200, 4020; EPSON MX 80; Pimage P90; also WG-2300 Graphics Plotter, laser printers and most other printers.

EXPANSION

Capability: 10 bus slots; 5 open for expansion (Four on ZWX-248-62); Two PC-compatible 8-bit slots; One PC/AT compatible 8/16-bit slot, and Two Zenith/PC/AT-compatible 8/16-bit slots (One on the ZWX-248-62).

PHYSICAL

Weight: Dual floppy drive—38.5 lbs. (17.46Kg); Winchester & Floppy drive—39.5 lbs. (17.92Kg).

Size: 21"W x 16.5"D x 6.5"H (53.3 x 41.9 x 16.5cm.).

OPERATING ENVIRONMENT

Temperature: 50 degrees-90 degrees F.

Humidity: 20-80% relative humidity.

POWER

Requirements: 105-125 volts at 50/60 Hz at 200 watts; 210-240 volts at 50/60 Hz switch mode power supply.

OPTIONAL DISK DRIVES AND TAPE DRIVES

Floppy Disk Drives: ZD-12: 1.2MB Floppy disk drive Z-207-7: 320/360KB Floppy disk drive.

Hard Disk Drives: Z-217-22: 20MB, 85 millisecond Winchester disk drive ZD-400: 40MB, 30 millisecond Winchester disk drive ZD-1200: 120MB, 25 millisecond Winchester disk drive

Tape Drives: ID-6025: 20MB External Streaming Reel Tape Backup ZD-60: 60MB Streaming Cartridge Tape Backup

SYSTEM CONFIGURATIONS:

ZFX-248-50: Dual 360KB floppy disk drives; 512KB RAM 8MHz.

ZWX-248-52: Single 360KB floppy disk drive; 20MB, 85 millisecond Winchester disk drive; 512KB RAM; 8 MHz.

ZWX-248-62: Single 360KB floppy disk drive; 20MB, 85 millisecond Winchester disk drive; 1.1MB RAM; 8 MHz.

Specifications subject to change without notice.

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