

ZENITH'S Z-200 ADVANCED PC



Power, IBM PC-AT compatibility and expandability in a desktop computer system.

In these information-intensive times, staying ahead of your information processing demands is a constant challenge.

To increase productivity you need to be able to manipulate and evaluate large amounts of data in virtually no time at all. And that takes an advanced PC system that's capable, compatible and very quick to react...the high-speed Z-200 Advanced PC from Zenith Data Systems.

Based on the 80286 processor, the Z-200 features unparalleled processing speed, IBM PC-AT compatibility, large storage capacity and quiet operation for today's business, engineering, scientific, and multi-user/multi-tasking applications.

The Z-200 Advanced PC is highly compatible, so you can use it to run virtually all PC-AT applications, as well as many programs written for the IBM PC and XT. Plus, you get features such as an enhanced detached keyboard, memory upgradable from 512K standard to more than 15 megabytes.

One thing more—the Z-200 PC's price is very compatible, too! So for PC performance you can count on, go with a name you can trust...the Z-200 Advanced PC from Zenith Data Systems.

Total Performance and Advanced Computer Technology Designed Specifically for the Demanding Professional... The Zenith Z-200 Advanced PC!

Introducing a new the Zenith Z-200

Memory expansion to meet growing needs.

The Z-200 ADVANCED PC economically meets the needs of a new generation of PC applications from the start. A 512K RAM comes standard and, when it's time to expand, you can easily upgrade to more than 15 MB!

Extensive storage capacity.

The system provides a standard single drive 1.2MB capacity. To easily transport PC software to the Z-200 ADVANCED PC, simply add a second 360KB floppy drive.

Other options include an identical second 1.2MB floppy, or an internal 20MB or 40MB Winchester hard disk drive.

The Z-200 ADVANCED PC comes with a built-in Winchester-floppy disk controller. This allows the system to handle up to two floppy and three hard disk drives for the maximum in data storage efficiency.

High speed data processing.

Based on an 80286 processor the Zenith Z-200 operates up to 2½ times faster than a standard PC with an 8088 microprocessor. Zenith's "no wait state" technology also makes the Z-200 one-third faster than the PC-AT! Which means you not only save time, but get your results where they're needed faster.

Advanced keyboard design.

The Z-200 ADVANCED PC's low profile keyboard has a settable angle preference mechanism, on-board 4 function calculator keypad and 10 programmable function keys. Each sculptured key is clearly labeled in English to permit fast entry and reduce error.

Select from text, graphics or high-resolution video options.

The Z-200 ADVANCED PC offers video cards with high resolution text mode displays. Graphics and color options; and high resolution graphics. Virtually any PC video card works in the Z-200 ADVANCED PC, and Zenith has high-quality video monitors to go with them.



era in productivity... ADVANCED PC.

Expansion slots let you add capabilities as needed.

Two 8-bit only slots, four 8-/16-bit slots, and one Zenith video option slot make upgrading your system easy. You get virtually unlimited potential for memory cards, communication devices, enhanced visual display options, multi-port serial cards and more.

Serial and parallel ports are also standard for access to a printer, plotter, modem or other peripheral.

Cost-effective local area networking.

The Z-200 PC can efficiently serve as many as 16 PC's on a local area network. Compatible with the IBM AT, it provides a disk drive "lock out" status for security from unauthorized access, assuring that each user's files are protected.

New advanced technology MS-DOS 3.1 and Xenix Operating Systems.

Microsoft's MS-DOS 3.1 and Xenix provide the key to advanced hardware and software communications. Via these systems, the Z-200 ADVANCED PC allows both single- and multi-user advanced configuration. It's now possible to perform several programs simultaneously such as writing one file while printing another file. And Zenith Data Systems has complementary data terminals for any Xenix application.

Total support from a leader in compatible PC design ... Zenith Data Systems.

When you choose a Zenith PC, you get more than a high performance computer system. You also get the benefits of a 65 year tradition of state-of-the-art technology. Full service and support, from reliable documentation to on-site maintenance. Plus the assurance of a special telephone hotline number for technical assistance when you need it.







WHEN TOTAL PERFORMANCE IS THE ONLY OPTION

Zenith Data Systems Z-200 PC-AT Specifications

CPU AND MEMORY Processor:	· High performance Intel
Memory:	80286. 80287 coprocessor optional. 512K of Dynamic RAM; internal parity check standard; Z-405 provides 1.5MB expansion. Maximum 2. 128K ROM.
	Memory maximum 15 + MB. 4K special RAM. Microsoft MS-DOS 3.1 and Xenix.
Video:	Optional. Compatible cards include: IBM monochrome display adapter, IBM color graphics display adapter, IBM enhanced graphics
Drives:	adapter, IBM professional graphics adapter and Zenith's 2-329 Basic system — Single
Dives	5¼" double sided/ double density floppy drive with 1.2MB (brackets included for additional 5¼" drive or Winchester);
	Enhanced system — Single 20MB high speed Winchester and single 1.2MB floppy drive. Optional 40MB Winchester available.
Keyboard:	Detached, low-profile to conform with DIN standards; 3 ft. coiled cord expandable to 6 ft.; 10 function keys; 57 alphanumeric; lit caps, numeric and scroll lock; audible click on each
THE RESERVE	keypress; auto-repeat with rate advance.

Cursor:	Blinking underline or reverse.
Cursor Controls:	home, end, page up,
Cursor Addressing: . Tab:	
Clock:	Continuous running real time clock with Lithium battery.
Diagnostics:	Automatic power-on with LED indicators; ROM- based user-invoked LED display; optional disk- based diagnostics.
I/O PORTS Serial Port:	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, 19,200; Signals monitored — receive data, clear to send, data set ready, and carrier detect; Signals controlled — transmit data, request to send, data terminal ready.
Parallel Port:	Supports both full and half duplex operation. Odd, even or null parity. Female DB25 connector; Centronics compatible.

.. 10 bus slots: [7 empty and available for expansion]. 2 8-bit only PC-compatible, 4 open 8/16-bit PC-AT compatible expansion slots, and 4 Zenith compatible slots.

EXPANSION

Capability:....

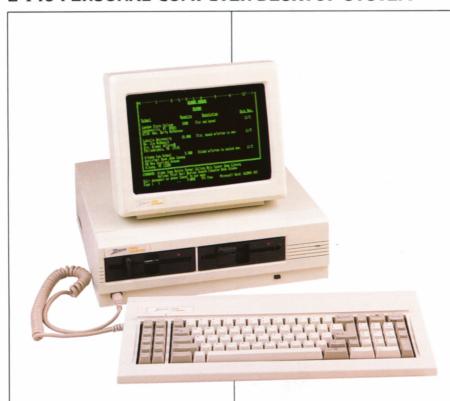
Weight: Single floppy drive - 35 lbs. (15.9Kg); Winchester & floppy drive - 38 lbs. (17.2Kg). Size: 21"W x 16.5"D x 6.5"H (53.3 x 41.9 x 16.5cm).
OPERATING ENVIRONMENT Temperature:50.90°F. Humidity:20.80% relative humidity.
FCC Approval: FCC class B, UL, CSA approved.
POWER Requirements:110/120 volts at 50/60 Hz at 200 watts, switch mode power supply.
ORDER NUMBERS ZF-241-81: Single 1.2MB floppy disk drive.
disk drive. ZW-241-82: 20MB, 40 millisecond Winchester disk drive.
Options: Z-207-7: Standard 360K floppy disk drive.
ZD-12: 1.2MB floppy disk drive. Z-217-22: 20MB, 85 millisecond Winchester disk drive.
ZD-200: 20MB, 40 millisecond Winchester disk drive.
ZD-400:
Specifications subject to change without notice.

PHYSICAL





Z-148 PERSONAL COMPUTER DESKTOP SYSTEM



Zenith's Z-148 PC
Offers You the Best
of Both Worlds...
A Fast, High
Performance
PC-Compatible
Personal Computer
at a Very Low Cost!

The Perfect System for Home or Office. The complete PC package.

If the personal computers in your price range fall short of your performance expectations, we have the perfect solution for you.

The Z-148 PC desktop computer system from Zenith Data Systems. It gives you complete PC capabilities and IBM PC compatibility, plus the features and flexibility to keep up with your needs. Now and down the road.

The Z-148 features a compact design with either a single drive or dual drive 256K RAM configuration. Both include a serial and parallel port, and monochrome and RGB outputs.

You can use it for any number of computing tasks, from keeping track of household expenses to accessing customer order files. The compact Z-148 also gives you the ability to run virtually all of the software written for the IBM PC "out of the box".

Don't settle for less computer than you need. Get the affordable system that grows with you...the Z-148 PC from Zenith Data Systems.

The low-c that's big on

Start off right in personal computing.

The compact Zenith Z-148 PC provides the entry level business, educational or home user with all that's needed to be totally productive from the very start.

Create, organize, and analyze vital information with the total performance Z-148 PC. Its compact size will prove to be space efficient in tight areas too.

A perfect intelligent workstation for local area networking.

Use the Zenith Z-148 PC as an economical local area networking workstation that allows users to either run individual programs on their own, or share the software, hardware and information files of the main network server's data storage unit. An IBM PC expansion slot may be utilized for further enhancements.



ost system performance.

Keep inventory, customer orders, financial and other valuable information files upto-date. You can even prepare and send messages to other network workstations for improved communications.

We just raised the limit on PC processing speed limits.

Based on the industry standard MS-DOS operating system, the Z-148 PC features a powerful 16 bit Intel 8088 processor. When you run the Z-148 PC at its full 8 MHz, it proves an unsurpassed 60% faster rate than comparable PC models.

A slot for the 8087 numeric co-processor is included to speed up operations of spread sheets, computer assisted design and scientific programs.

Ergonomic design for easy operation.

The Z-148 PC features an adjustable, detached keyboard with clearly labeled keys for error-free computing. Separate typewriter and calculator keypads, 10 programmable function keys and LED indicators on the caps and numbers lock keys for instant operating status.

You can choose from a variety of high resolution, non-glare monitors including monochromatic green or amber and RGB or composite full color video.

Memory to meet your needs.

The Z-148 PC's 256K memory is far in excess of typical 32K, 48K or 64K PC models. For even more computing power, it uses advanced 256K memory chips to permit expansion to 640K on board without any additional PC cards.

Plenty of storage capacity, too.

Depending on your requirements, the system provides single or dual 51/4" floppy disk drives. Each disk stores over 360K of information — about 170 typewritten, double spaced pages per disk!

Flexible growth as your needs change.

The system's serial and parallel ports allow quick and easy access to printers, plotters, modems and other peripherals. An optional PC/PC-XT compatible expansion slot permits even more flexibility for the future.

Access to the PC software library.

The productivity of a computer system depends greatly on the software available to it. The Z-148 PC lets you select from the complete range of 16 bit software developed for the IBM Personal Computer. And you can run most any program "out of the box" without alterations.

Zenith backs you with total support.

When you invest in a Zenith PC, you get a lot more than just a computer. You also get the benefits of state-of-the-art technology. Proven reliability. Plus all the service and support you need, from software and top-notch documentation to training materials and on-site maintenance. We even make available a special hotline telephone service for technical help when you need it.





Zenith Data Systems Z-148 PC Specifications

CPU AND MEMORY

.8088 16 bit processor Processor: operating at 8Mhz. 5Mhz/8Mhz switch

included; 8087 co-

processor slot MS-DOS Operating System: . . Standard 256K Memory:

expansion to 640K RAM (768K non-compatible model): each bank is

9 bits wide. Supports

256K chips.

Drive: Single or dual 51/4"
double sided/double density drives; 48 tracks per inch; 9 sectors/track; IBM PC-DOS compat-

ible; formatted capacity 360KB each; media write-protect status

signal provided.

Display Graphics:640 x 200 dot addressable pixels

Video:

monochrome; 320 x 200 dot addressable pixelscolor; reverse video; addressable cursor; optional interlace mode.

.Both RGB with intensity and composite mono-chrome outputs

provided. 1 of 8 background colors, 1 of 16 foreground colors. A standard 9-pin D-type connector is provided for RGB monitors.

Detached low profile to conform with DIN standards; 3 ft. coiled Keyboard: cord expandable to 6 ft.; 10 user programmable function keys; separate 17 key calculator keypad; 57 alpha-numeric; caps and numeric lock are lit; audible click on each keypress; auto-repeat

with rate advance. Cursor: Blinking, underline or reverse.

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

Cursor Addressing: Relative or direct. Tab: 8 column tab.

. Audible alarm in receipt of ASCII BEL.

I/O PORTS Serial:

Bell:

Male DB25 EIA RS-232C connector; asynchronous RS-232C compatible. User software selectable-Number of start bits - 1; Number of data bits - 5, 6, 7, 8; Number of stop bits - 1

or 2; Baud rate - 110, 150, 300, 600, 1200, 2400, 4800, 9600, 19,200; Signals monitored -receive data, clear to

send, data set ready, and carrier detect: Signals controlled transmit data, request to send, data terminal

ready; Supports both full and half duplex operation. Odd, even or null parity. Female DB25 connector;

Parallel Port: Centronics compatible. Video Out Port: RGB video output with

9-pin D-type connector. Composite video with RCA phono jack.

EXPANSION Capability: . . .

Optional daughter board provides full-size internal IBM PC (5150) compatible card slot,

plus connector to external expansion box. PRINTER COMPATIBILITY

Any Centronics Printers: compatible parallel printer: Serial printer

interface.

OPERATING ENVIRONMENT

.50-90°F .20-80% relative humidity. .FCC class B, UL, CSA Approvals:

approved. **PHYSICAL**

(40.64 x 12.2 x 40.9cm)

Requirements:110/120 VAC: 60Hz. AC Power:95-130 VAC at 48-62Hz.

ORDER NUMBERS

ZF-148-41:256K internal memory, single drive, 360K bytes

total storage. .256K internal memory,

ZF-148-42: dual drives, 720K bytes

total storage.

Option card permits one ZA-141-1: internal PC expansion

card, connection to expansion box. Socket for ROM-based software

included. .256K Memory upgrade

Specifications subject to change without notice.







Z-158 PERSONAL COMPUTER DESKTOP SYSTEM



Go Beyond IBM Compatibility...
Reach for Total Performance.
Zenith's Z-158 PC!

Grow With a Name You Can Trust ... Zenith

Choosing the right system for your needs is an important decision. Zenith Data Systems has your answer!

Zenith's Z-158 PC is the "Total Business Solution" for your personal computing needs. It is a quality personal computer with the enhanced features and quick processing speed that you want and demand.

The Z-158 PC is Zenith's personal computer system with IBM compatibility to access the wealth of software and peripherals developed for the IBM PC.

Dual 51/4" floppy disks in the standard IBM format are featured on the Z-158 PC. There is even an optional built-in 20 MB Winchester drive to add to the system's capability.

Add the Z-158 PC's compact, lightweight design with detached keyboard and its maximum 640K memory capacity and you will be investing in perhaps the last computer system you will ever have to choose.

Invest Wisely! Go with a name you can trust... Zenith.

Z-158 Person Total Performance for



Total PC Performance with Exceptional Speed

Zenith Data Systems 16-bit Z-158 PC helps you get all your answers as quickly as possible. Designed to operate at a full 8MHz, it allows you to run as much as 60% faster than its comparatively sluggish 5MHz competitors. And, for those instances when an application requires a slower 5 MHz processing speed, the dual-speed Z-158 PC simply switches to accommodate the need.

Access to an Extensive IBM Compatible Software Library

Productivity of any computer system depends to a significant degree on the software chosen. The Z-158 PC allows selection from the full range of 16-bit software developed for the IBM Personal Computer.

Extensive Memory and Storage Capacity

Select between the Z-158 PC's standard 256K RAM single disk or dual disk drive models.

The IBM standard format double sided/double density 5½" floppy disks store 360K each. The optional hard disk drive provides an extensive 20 MB of added storage. The Z-158 PC provides the capacity to handle the larger, more comprehensive business programs.

More Expansion Slots to Meet Growing Needs

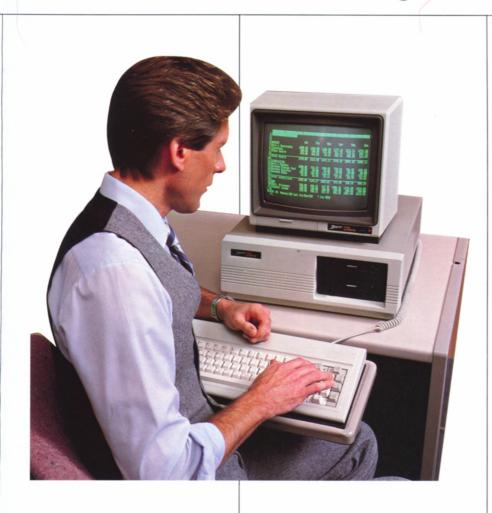
Five open IBM compatible slots are available for Z-158 PC expansion. Access a wider variety of software programs and peripherals to meet the ever-changing needs of business.

Graphics in Full Color or Choice of Monochromatic Displays

Choose either an amber or green phosphor Zenith quality engineered monochromatic monitor. Or opt for a Zenith RGB and composite video display and enjoy the benefits of full color, interest-grabbing business graphics presentations.

Use Zenith Data Systems' optional video card to provide higher resolution graphics.

nal Computer or Tomorrow....Today!



User-Friendly, Detached Keyboard

A detached keyboard with clearly labeled and color-coded keypads and a calculator-style numeric keypad allows quick access to the right key.

Ten programmable function keys, separate plus and minus keys, and an L-shaped return key increase the Z-158 PC's ease of accurate data entry. LED indicators on the keyboard give instant operating status notice.

2 Ports for Communication Flexibility

Expand your Z-158 PC by utilizing the parallel port and an IBM compatible serial port. Add a matrix or letter quality printer, modem, or other beneficial peripherals.

Three Levels of Diagnostics

Protect your data entries by checking the Z-158 PC's hardware systems accuracy through three separate testing procedures:
Automatic power-on diagnostics with LED

indicators; ROM-based userinvoked LED display; and optional, extensive diskbased diagnostics.

Important Extras Standard

Compliments of the Z-158 PC, users can enjoy such added features as smooth scroll search, booting from either drive, a superior configuration program, high density diskette formatting on floppy drive, four display type styles to choose from and much more.

Designed for Strength and Easy On-Site Maintenance

Modular design is the basis for optimally easy maintenance. Components plug into place in minutes reducing repair time to a minimum in the unlikely event service is ever needed.

Zenith Total Support

Zenith Data Systems is dedicated to full support and service. This includes a wide range of software and top notch documentation, easy to understand training materials, and on-site maintenance. Should it be required a special hotline telephone service is available for technical assistance.

Zenith..."The Quality Goes In Before The Name Goes On"!

Zenith Data Systems Z-158 PC Specifications

CPU AND MEMORY

Processors8088; 8/5 MHz switchable; 8087 co-processor slot Memory256K of Dynamic RAM with internal parity check standard. Expandable to 640KB.

Basic memory card can support up to 640KB in 64KB or 256KB increments (3 banks) of Dynamic

RAM 9 bits wide including parity.

. Character mode color. 80 characters x 25 lines (1 Display: of 8 background colors, 1 of 16 foreground

colors). Medium resolution color.

Display Graphics: . . . 320 x 200 (color).

Each graphics bit can be 1 of 4 colors selectable from 1 of 2 color pallets; High resolution; 640 x

200 (black and white only).

Character Set: Alpha numeric modes. 8 x 8 character set. Upper and lower case special symbols and graphic

symbols.

Keyboard: Detached low profile to conform with DIN standards; 3 ft, coiled cord expandable to 6 ft.; 10

function keys; 17 keypad keys; 57 alphanumeric; caps lock and numeric lock are lit; audible click

on each keypress.

Blinking underline or reverse. Cursor Controls: Up, down, left, right, home.

Cursor Addressing: . . Relative and direct. .8 column tab. Refresh Rate: 60 Hz, 50 Hz.

Edit Function: Insert and delete character or line.

Erase Function: Erase line; erase to beginning of line; erase to end

of page; erase to end of line.

Bell: Audible alarm in receipt of the ASCII BEL

command.

Video: Both RGB with intensity and composite

monochrome outputs provided. A standard 9 pin D connector is provided for RGB monitors. Sync polarity is jumperable positive or negative. Monochrome output is via a standard "phono" type connector. "Color" displays are represented

by a corresponding gray level.

SERIAL I/O PORTS

Interface: EIA RS-232 standards at a baud rate of 110 to

19,200 DTE connection.

Mode: Asynchronous full or half duplex.

PARALLEL I/O PORT

Interface: Centronics compatible parallel printer port with a 25 pin D-connector accessible from the rear of the

PRINTER COMPATIBILITY

Printers: Any Centronics compatible parallel printer; serial printer interface.

DISK SYSTEM

Drives: Single or dual 51/4" floppy disk drives, 48 track per inch, double sided/double density. Capacity: 320K or 360K bytes (IBM 8 or 9 sector formats) per drive. 720K bytes total (double drives).

Tracks: 40 per side.

Winchester: Optional 51/4" rigid disk drive. With single 51/4" floppy.

EXPANSION

Capability: Five PC-compatible, one Zenith video option slot, available for future expansion. Additional slot used for Winchester controller. Memory expan-

sion to 640K.

PHYSICAL

Case: All metal for strength with decorative bezels for superior styling modularized for easy field service. (40.64cm x 15.88 cm x 41.91cm). . Approx. 42 pounds (keyboard & two drives). (18.9Kg).

Operating Temp: 15-30 °C (59-86 °F)

POWER

Requirements: 120/240 volts at 50/60 Hz at 300 watts maximum.

ORDER NUMBERS

ZF-158-41:256K internal memory, single 51/4" floppy disk drives, 360K bytes total storage. ZF-158-42:256K internal memory, dual 51/4" floppy disk drives, 720K bytes total storage.

ZW-158-43256K internal memory, 26.6 Mbytes unformatted (21.4Mbytes formatted) 51/4" rigid disk, single 51/4"

floppy with 360K bytes storage. Z-304Synchronous/Asynchronous adaptor card

Z-317-2020 MB Winchester upgrade kit Z-329Monochrome text-mode card. Z-205-4256K Memory upgrade

Specifications subject to change without notice.



