

ZORBA

PORTABLE COMPUTER



THE EXPERTS' CHOICE

Computer Formats:

- Osborne I
- Kaypro II
- Xerox 820
- Cromemco 520
- DEC VT 180
- IBM PC and Compaq (e.g. CPM-86)
- Televideo 802

Features:

- 9" Screen Green or Amber
- 19 Independent Programmable Function Keys
- 24.6 Lbs.
- Nationwide Service

Options:

- 16 Bit Upgradable

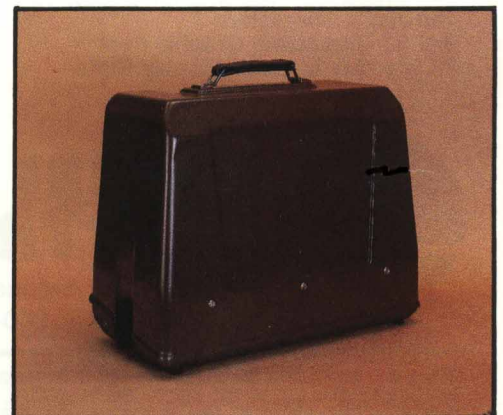
Bundled With:

C Basic, CPM 2.2, M80, and more.



**GEMINI
ELECTRONICS, INC.**

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Specifications

General Specifications

ZORBA is the lowest cost full featured portable computer. This light weight computer is ruggedly packaged in a convenient weather sealed carrying case. The case surrounds a strong inner chassis which further protects the Z80A based computer with its two double sided double density disk drives, large easy to read display screen and well designed detachable keyboard.

ZORBA uses CP/M, the industry standard operating system, which means that a wide range of existing software is readily available to the user.

ZORBA has a full set of I/O Ports. (Reference Interfaces)

ZORBA supplies a SETUP program to configure these software programmable ports for message format, transmission protocol, data translation and baud rate.

The ZORBA users manual and technical manual covers operation of the unit, all supplied software and all interface and internal information. A system diskette is supplied with all system files and utilities. A second diskette contains the sources for all ZORBA software including BIOS, SETUP, FORMAT, and PATCH.

Specifications

General Mechanical and Electrical

Width -17.5 inches (44.45 cm)
Height - 9.0 inches (22.86 cm)
Depth -16.0 inches (40.64 cm)
Weight -24.6 pounds (11.1 Kg)
Power -80-130 VAC or 190-245 VAC
50/60 Hz
170 watts max

Operating Environment:

Ambient Temperature: 0-50 degrees Celsius
Relative Humidity: to 95%-Non-Condensing
Cooling: Forced Air

Display

Display Tube:
9" diagonal with Green or Amber
High resolution display circuitry
Nonglare flat face screen
60 Hz refresh rate

Display Format:

25 lines x 80 columns
5x7 Character Font with full descenders
128 ASCII Characters
8x9 32 Characters Graphic Font
2K Memory Mapped Display Buffer

Keyboard

Keyboard communicates serially with CPU
Detachable with 2 foot coiled cord
95 keys in standard QWERTY format
13 Key Numeric pad
Independent Caps Lock and Shift Lock
55 Software programmable function keys
All keys auto-repeat after 1 second delay
All Standard cursor and terminal control keys

CPU Board

Z80A CPU running at 4 Mhz with no wait states
64K bytes of 200 ns RAM (58K after CP/M loaded)
16K bytes of EPROM (2732) can be switched in and out by software
12K available for user EPROMS
8275 CRT controller, DMA driven
1793 Floppy disk controller, SMC data separator
Bipolar proms configure 10 addresses
Fully structured interrupts prioritized by bipolar proms

Interfaces

- Full asynchronous RS232 port with modem control. Baud rates and data translation and protocol programmable
- Full asynchronous full duplex RS232 port with hardware handshake (for printers). Baud rates and protocol programmable.
- Keyboard Serial Interface-5V TTL assigned at 1200 bits per second programmable
- One 8 Bit parallel port with independent strobe and ready lines. Supports Centronics interface with an available adaptor cable.
- IEEE 488 Bus Master Port (ie: General Purpose Instrumentation Bus) not Software Supported.
- 21 Standard Software Programmable Baud Rates including: 45.5, 50, 62.5, 75, 110, 134.5, 150, 200, 300, 600, 1200, 1760, 1800, 2000, 2400, 3520, 3600, 4800, 7200, 9600, 19200 BPS.

Disk System

Controller: WD11793
Drives: 5.25 Double Sided Double Density, 48 TPI
40
Tracks: 20 Double Side
Sectors/Cylinder: 512 Double Density
Bytes/Sector: 409,600 bytes
Capacity/Diskette: 2 ms track to track (nom.), 15 ms settling time
Head Load: 0 ms
Motor Timing: 200 ms startup, 10 seconds autostop
Rotation: 300 rpm
Recording: FM Single Density
Standard: MFM Double Density

Built-in disk interchange formats: Xerox 820 (SD, DD), Kaycomp (DD), DEC VT-180 (SD), Osborne (SD) and IBM-PC (eg. CPM/86) and Televideo 802 (Read/Write and Format compatibility)

Software

STANDARD SYSTEMS SOFTWARE PACKAGES

- CPM 2.2 operating system including utilities
- M80 (including L80, LIB80, CREF80)
- Source code of the bios plus any other modular supplied Utilities
- Data communication set up package

STANDARD APPLICATIONS SOFTWARE PACKAGES

- C Basic

AUTHORIZED DEALER



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