

NewBrain

DASI Trust
I - Income
O - Outlays
B - Balance at start



NewBrain

TECHNICAL SPECIFICATION

HARDWARE

Model A and AD

Z80A microprocessor running at 4MHz
COP 420M micro controller with 1K system ROM
32K byte RAM
28K ROM
Dual 1200 baud cassette ports with drive
motor control
75 ohm UHF channel 36 output
CCITT 1v, 75 ohm composite video output
RS232/V24 Bi-directional port
RS232/V24 Printer port
(both RS232/V24 ports are software driven
and non-autonomous)

Character Generator provides 512 characters
including the 96 upper and lower case
ASCII/ISO printing characters, 64 viewdata
mosaic graphics symbols, Western European
accented characters, full Greek upper
and lower case characters, line drawing
graphics, games graphics and other symbols
generated in 8 x 10 and 8 x 8 matrices.
Video and UHF outputs provide a display of
up to 25 or 30 lines of 40 or 80 characters per
line. A high resolution display of up to 250
dots vertically by 256, 320, 512 or 640 dots
horizontally may be mixed with a separately
scrollable character mode display.

Model AD

An on-board blue-green vacuum fluorescent 16 character, 14 segment display behind a
brown tinted filter.

SOFTWARE

Enhanced ANSI BASIC

Independent operating system
Uniform I/O commands to handle up to 255
active streams
Full user proofing of applications programs
Direct interrupt handling capability

Unlimited length string handling
Chaining and run time program generation
External Call capability
All major routines RAM vectored

Screen Editor

Up to 255 pages each with up to 255 lines of 40
or 80 characters, or continuous lines
Insertion and deletion of lines and characters

Send page, line and character
Access to all functions from keyboard or line
Selectable character sets
Direct cursor addressing

Maths Pack

10 significant figure floating point arithmetic

2ms multiply
All trigonometrical and inverse trigonometrical
functions

Graphics

Absolute and relative plotting
Line and arc drawing

Scaling
English language BASIC commands

Optional Read Only Memory Additions in NewBrain expansion boxes

Z80 Assembler
COMAL
CP/M® Disk Operating System

Statistics Package
Text Processing Package

... and many more planned.



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