DAI PERSONAL COMPUTER

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DAI ANNOUNCES...

THE "SECOND GENERATION" PERSONAL COMPUTER !

★ HIGHEST PERFORMANCE !

★ LOWEST PRICE !

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Features

Microcomputer

- 12K user memory, easily expandable to 32K or 48K
- resident high-speed BASIC with floating-point math
- socket for very fast hardware math processor
- resident software for 8080 machine language programming
- 3 oscillators with programmable amplitude and frequency
- 1 noise generator with programmable amplitude
- sound channel audio modulation via TV antenna input
- video graphics generator :
  - multiple resolution graphics modes (64x71, 129x159, 255x335)
  - character mode (60x24)
  - split-screen modes (graphics + lines of charachters)
  - 16 colours or shades of grey generator
  - full ASCII upper and lower character set
- ASCII keyboard with cursor control keys
- DCE-BUS compatible

Resident BASIC

- ROM resident semi-compiling high-speed BASIC interpreter
- resident screen editor with up, down, left, right scrolling
- full floating-point scientific math commands
- hardware scientific math processor automatically supported
- machine language subroutine capability
- unique graphical-video commands :
  - comprehensive graphics
  - dot, line and rectangle draw commands
- unique graphical-sound commands for :
  - smooth music
  - random frequencies
  - enveloped sound
  - gutteral vocal sound generation
- program execution trace facility

Device Interfaces

- PAL, SECAM, NTSC domestic TV, or PAL monitor interfaces
- dual low-cost audio cassette interfaces with motor control
- stereo hi-fi output channels
- left and right game paddles
- interfaces via DCE-BUS :
  - analog input and output
  - digital input and output
  - EPROM programming
  - medium and high current drivers etc.
- peripherals via DCE-BUS
  - floppy disc
  - printers etc.
- RS232 serial interface with programmable baud rate

Optional System Software

DAI Assembler, Editor, Fortran Compiler etc.

Summary of BASIC Statements

Commands

CALLM	GOTO	NEXT	RUN
CHECK	IF..GOTO	ON..GOSUB	SAVE
COLORT	IF..THEN	ON..GOTO	SAVEA
CONT	IMP	OUT	SPACE
CURSOR	INPUT	POKE	STEP
DATA	LET	PRINT	STOP
DIM	LIST	READ	TRON
EDIT	LOAD	REM	TROFF
END	LOADA	RESTORE	UT
FOR	MODE	RETURN	WAIT
GOSUB	NEW		

Graphic Commands

COLORG
DOT
DRAW
FILL

Sound Commands

ENVELOPE
NOISE
SOUND
TALK

Functions

ABS	EXP	LOG	SIN
ACOS	FRAC	LOGT	SPC
ALOG	FRE	MID$	SQR
ASC	FREQ	PDL	STR$
ASIN	GETC	PEEK	TAB
ATAN	HEX$	PI	TAN
CHR$	INP	RIGHT$	VAL
COS	INT	RND	VARPTR
CURX	LEFT$	SCRN	XMAX
CURY	LEN	SGN	YMAX

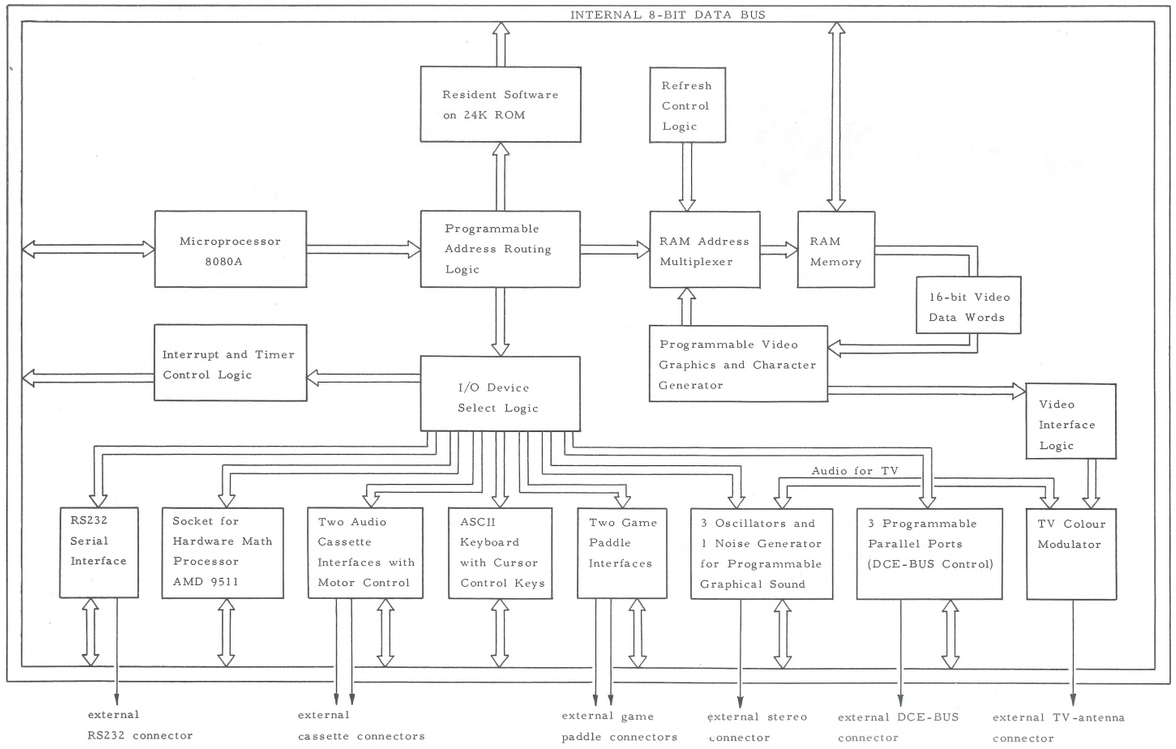
Operators

+, -, ★, /, MOD, ↑, =, <, >, < >, <=, >=,
AND, IAND, IOR, IXOR, INOT, OR, SHL, SHR

Variables

Integer	: A%	9-digit
Floating Point	: A!	6-digit (10^{-18} to 10^{18})
Hexadecimal	: # A	
Strings	: A$	0 to 255 characters
Names	:	1 to 14 characters

Functional Block Diagram



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DCE-BUS Compatible Devices

Peripherals

floppy disc
printer
dual cassette with random access

Real-World Interfaces

RWC-F	Foundation module
RWC-T24	TTL interface
RWC-D12	Isolated digital interface
RWC-MI	Matrix interface
RWC-AI	Analog input
RWC-V8/16M	High-speed analog input
RWC-CO4	Isolated analog current output
RWC-IEC	IEC bus interface
RWC-CCE	Serial communication
RWC-SLD	Serial line distributor
RWC-SCD	Standard current drive
RWC-HC/DC	High-current D.C. driver
RWC-MC/DC	Medium-current D.C. driver
RWC-PTM	Temperature measurement
RWC-MUX	Multiplexer for RWC-PTM
RWC-PRG/8	2708 EPROM programmer
RWC-PRG/16	2716 EPROM programmer

RWC module housing

Practical Application Areas

Professional

Small business data processing
Word processing and text editing
Small scientific computer
Software development system
Industrial Control
Computer terminal

Educational

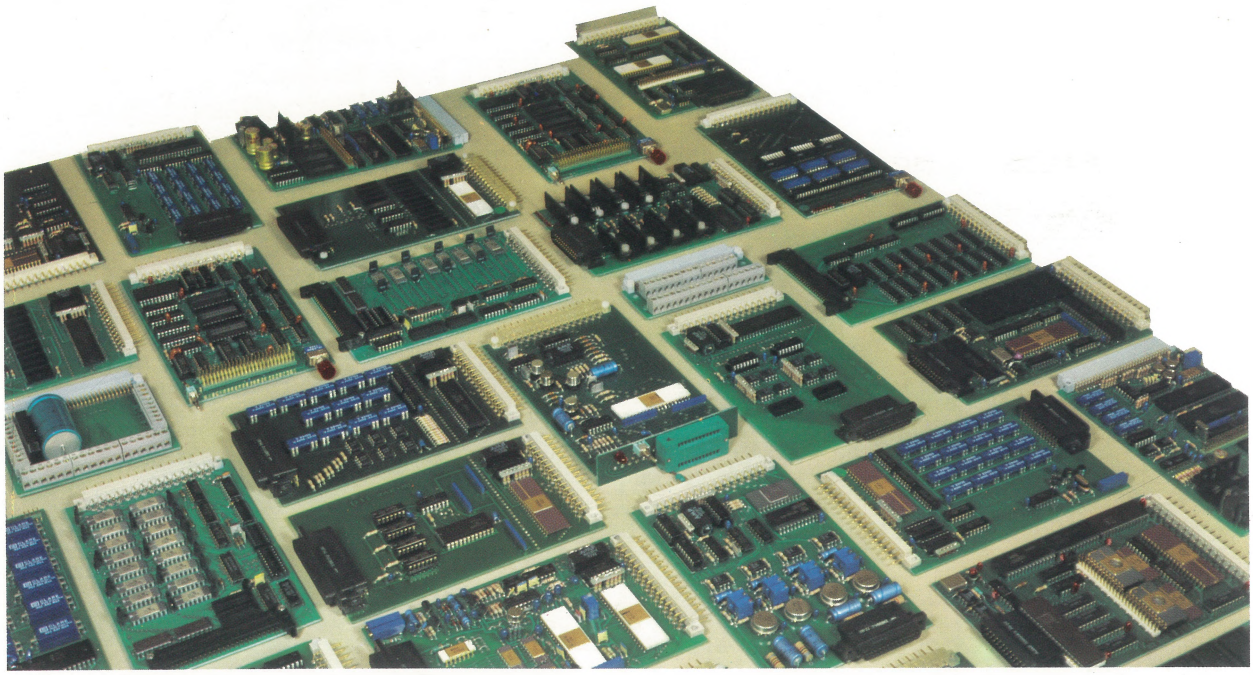
Teacher's aid
Laboratory tool
Correspondance courses
Simulations

Recreation and Leisure

Single player and team games
Music composition and synthesis
Sports club management
Game score keeping

Domestic

Home economics
Address and telephone list
Central heating control
Fire and smoke detection
Food planning and recipes
Family health information
Garden scheduling



DAI THE MICROCOMPUTER ENGINEERING COMPANY

DATA APPLICATIONS INTERNATIONAL

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