The Personal Computer



commodore

PET Plus....



2001-16/32

The PET™ is now a truly sophisticated Business System with the announcement of these Peripherals.

The PET™, incorporated with the Floppy Disk and Printer makes an ideal business system for most professional and specialized fields: medicine, law, dental, research, engineering, toolmaking, printing, education, energy conservation, etc. . . The PET™ Business System as a management tool, delivers information to all levels of Business, previously attainable only with equipment many times more expensive. The PET™ Business System is one of the most cost efficient business tools

today. It offers a wide range of applications from logging management strategy in major corporations to organizing accounts and inventory control of small businesses. Here are just a few of the cost-saving uses in the corporation, professional office or small business: stock control, purchasing, forecasting, manufacturing costing, customer records, mailing lists, etc. . . The PET™, Floppy Disk and Printer, a compatible business system at a reasonable price — Take a closer look at these Peripherals . . .

Specifications:

Dimensions: $16\frac{1}{2}$ " wide by $18\frac{1}{2}$ " deep, 14" overall height Weight: 44 lbs.

MEMORY

Random Access Memory 16 or 32K bytes Read Only Memory (operating system resident in the computer): 14K bytes

8K+ — BASIC interpreter 4K — Operating system

1K — Machine language monitor

VIDEO DISPLAY UNIT 9" monochrome CRT

1000 character display, 40 x 25

8 x 8 dot matrix for characters

64 standard ASCII characters; 64 graphic characters

KEYBOARD: Business or Number Pad Version Screen Control: home, clear, up, down, left and right Editing: Character insertion and deletion

OPERATING SYSTEM will support multiple languages (BASIC resident)

Machine language accessibility.

File management in operating system.

Random number generation or pseudo random sequence.

INPUT/OUTPUT

I/O supported through IEEE-488 instrument interface for multiple intelligent peripherals. Memory mapped I/O user port.

All I/O automatically managed by operating system software.

Single character I/O with GET command.

BASIC INTERPRETER

Expanded 8K BASIC.

Strings, integers and multiple dimension arrays.

High precision (9 significant digits).

Direct memory access through PEEK and POKE commands.

Additional sockets are provided on board for 8K ROM expansion.

ROMs for assembler or disk O.S. may be inserted.

Profession Peripherals





Dual Drive Floppy Disk

The Dual Drive Floppy is the latest in Disk technology with extremely large storage capability and excellent file management. As the Commodore disk is an "Intelligent" peripheral, it uses none of the RAM (user) memory of the PET™. The Floppy Disk operating system used with the PET™ computer enables a program to read or write data in the background while simultaneously transferring data over the IEEE to the PET™. The Floppy Disk is a reliable low cost unit, and is convenient for high speed data transfer. Due to the latest technological advances incorporated in this disk, a total of 360K bytes are available in the two standard 51/4" disks, without the problems of double tracking or double density. This is achieved by the use of two microprocessors and fifteen memory I.C.s built into the disk unit. Only two connections are necessary — an A/C cord and PET™ interface cord.

Specifications:

Microcomputer system devices

Controller

6504 microprocessor

6530 I/O, RAM, and 1K ROM software

6316 2K ROM for encoding & decoding disk data

6522 I/O and interval timese

6522 I/O and interval timers

File interface

6502 microprocessor

(2) 6532 RAM, I/O, interval timers

(2) 6332 4K ROM each (total 8K disk operating system)

Shared RAM

(8) 6114 1K x 4 bit static RAM (total 4K bytes)

Disk drives

(2) Shugart Associates SA390 drives standard minifloppy (51/4" disk) activity LED's light when a file is open on that drive

Power requirements

50 watts @ 120 VAC line frequency independent other line voltage options to be announced

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2022

Tractor Feed Printer

The Tractor Feed Printer is a high specification printer that can print onto paper (multiple copies) all the PET™ characters — letters (upper and lower case), numbers and graphics available in the PET™. The tractor feed capability has the advantage of accepting mailing labels, using standard preprinted forms (customized), cheque printing for salaries, payables, etc. Again, the only connections required are an A/C cord and PET™ connecting cord. The PET™ is programmable, allowing the printer to format print for: width, decimal position, leading and trailing zero's, left margin justified, lines per page, etc. It accepts 8½" paper giving up to four copies. Bidirectional printing enables increased speed of printing.

Specifications:

Microcomputer System Devices

6504 Microprocessor 6522 I/O, interval timer (2) 6114 1K x 4 RAM (2) 6332 4K x 8 ROM

Printer Mechanism

Manufactured by C. Itoh Electronics, Inc. Model No. 820 Tractor feed

Epson DH-70 print head

Dot matrix — 7 x 6 — 80 columns per line Impact print — original plus 3 copies

Print rate is 84 LPM (112 CPS)

Bi-directional printing

Forms: 8.5+ plus .5+ x 2 (sprocket margins)

Pin to pin distance .5+ Longitudinally

9.0+ Laterally 5/32+ Diameter

Packaging

18 gauge all steel cabinet Dimensions: width — 17+, depth — 18+, height — 6+ Forms enter from rear or bottom of cabinet.

Power

150 watts 120 or 220 or 240V AC 50 or 60 Hz

(Cont'd over)

Dual Drive Floppy Disk

Packaging

18 gauge all steel cabinet Dimensions: width — 15", depth — 14.35", height — 6.5" Cover hinges from base for servicing

Diskette organization

Formatting is by the drive itself — any mini-floppy diskette may be used 35 concentric tracks constant density recording on each track varying number of sectors per track innermost: 17 outermost: 21 176640 bytes on a single side Track 18 used for directory 171520 bytes for user storage Soft-sectoring Diskettes for dual side recording may be used

Data interface

IEEE-488

Standard 24-pin stacking connector Device #8-15 by jumper option full listener — talker recognizes secondary addressing

Floppy Disk Command set (summary)

Notes

D := Drive #, 0 or 1

Ε := IEEE device # of floppy

:= Logical file #

:= Channel # (2 <= C <= 15)C

CL := Logical file # for command channel

Pattern symbol matches any number of characters

:= Pattern symbol matches exactly one character

"?" may appear anywhere, "*" may only appear on right side of pattern.

Example:

"N?M*" matches "NEW", "NUM", "NAME", "NUMBER"

Files must begin W/ cap letter from A to Z & may have 16 characters.

Pattern matching W/ file names may be used only when: Loading directory (\$) Scratching files Opening read channels Loading programs

Default drive #'s may be used in most cases. Using a ":" without a drive # indicates a default to the previously determined drive #. A file name with no drive # or ":" indicates that the file is to be looked up on both drives, beginning with the previously determined drive #. A ":" must separate commands from file names as described above.

Commands may be abreviated to any form that retains the 1st char.

2022 Tractor Feed Printer

Data Interface

IEEE-488

Standard 24-pin stacking connector Device #4-7 by jumper option Listener only

Recognizes secondary addressing

Character Set

Upper case ASCII Lower case ASCII PET™ graphics

Control Characters

Enhance printing (doubles size)

Enable automatic line count and paging

Page eject

Print reverse field

Overprint a line

Switch to graphics character set

Switch to lower case character set

Print programmable character

IEEE Secondary Address Commands

Print data exactly as received

Accept characters as a format

Edit data to format

Alter number of lines per page

Enable diagnostic messages to print

Accept data for programmable character

Data Formatting Capability

Field width and decimal position specified

Leading or trailing sign

Fixed or floating dollar sign

Forced leading zeroes

Literal characters always printed

Alpha fields left justified

Diagnostic Messages

Can be turned on when desired

Print on paper

Describe problems with format and data

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