

The **PET**TM Personal Computer



PETTM Plus.....



2001-16/32

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

The PETTM, 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 PETTM Business System as a management tool, delivers information to all levels of Business, previously attainable only with equipment many times more expensive. The PETTM Business System is one of the most cost efficient business tools

Specifications:

Dimensions: 16½" wide by 18½" 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)

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 PETTM, Floppy Disk and Printer, a compatible business system at a reasonable price — Take a closer look at these Peripherals . . .

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.

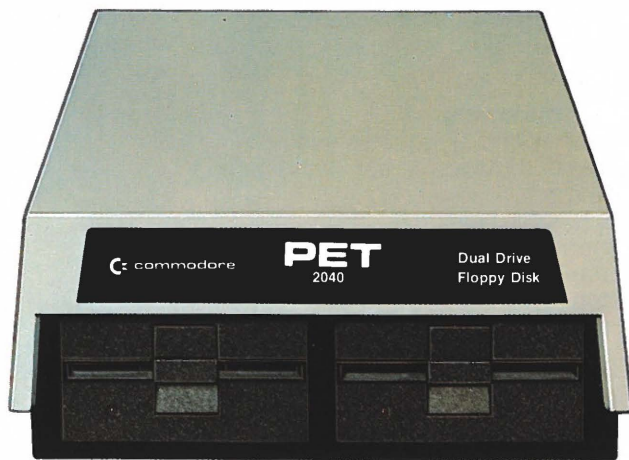
High precision (9 significant digits).

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.

Professional Peripherals



2040

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 340K bytes are available in the two standard 5¼" 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 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 (5½" disk)
- activity LED's light when a file is open on that drive

Power requirements

- 50 watts @ 120, 220 or 240 volts 50 or 60 Hz
- line frequency independent
- other line voltage options to be announced

(Cont'd over)



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.

2022 Specifications:

Microcomputer System Devices

- 6504 Microprocessor
- 6532 I/O, RAM, interval timer (2)
- 6332 4K x 8 ROM

Printer Mechanism

- Manufactured by Epson, Model 3110
- Tractor feed/Programmable spacing (6,8 Lines Per Inch)
- Epson DH-70 print head
- Dot matrix—7 x 6—80 columns per line
- Impact print—original plus 3 copies
- Print rate is 70 LPM: 150 CPS (burst speed)
- Forms: Uses standard 80 column forms (tears down to 8½ x 11)
- Variable form handling up to 10 inches

Packaging

- 18 gauge all steel cabinet
- Dimensions width—17.0, depth—14.0, height—8.15
- Forms enter from rear or bottom of cabinet

Power

- 100 or less watts typical
- 120, 220 or 240 volts
- 50 or 60 Hz

(Cont'd over)

Packaging

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

Diskette organization

Drive will format any soft sectored mini floppy diskette
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
170180 bytes for user storage
Soft-sectored
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)

File Operation:

Open/Close
Load/Save
Load Dirs

2040 Command Set:

Sequential File Management—

Initialize

New

Verify

Duplicate

Rename

Copy

Scratch

Direct Access Utility—

Block—Read/Write Provides direct read or write of
any block

Block—Execute User defined DOS functions can
reside on diskette for execution by the 2040

Buffer—Pointer Used to access specific fields of
data within a block

Block—Allocate/Free Used to manage direct
access blocks

User Permits custom expansion of the DOS
commands

Memory Read/Write Use to read or write disk
memory

Memory Execute User defined DOS functions can
be executed directly by the 2040

Additional Features

Error/Status information can be read from an error
channel

Pattern Matching available on key operations

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
- Programmable line spacing (permits continuous ver-
ticle printing)

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

2023 Specifications:

Has all of the above features except:

- Friction feed rather than tractor feed
- Fixed line spacing rather than programmable
- Dimensions: width—17.0, depth—14.0, height—8.15



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