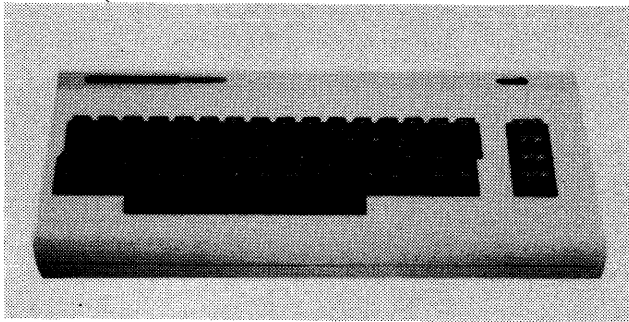


# Commodore-64



The above picture shows a VIC 20 computer which is basically the same physically as the Commodore-64. Because the Commodore-64 is still in the prototype stage, CBM did not have any photos available.

## BACKGROUND INFORMATION

*Commodore Business Machines Inc., Computer Systems Division, 681 Moore Road, King of Prussia, PA 19406. Telephone (215) 337-7100.*

Commodore Business Machines (CBM) Inc. is a subsidiary of Commodore International Ltd., a Canadian-based company founded in 1958 to manufacture and market electromechanical calculators and adding machines.

CBM was formed in 1976 following acquisition by Commodore of MOS Technology, Inc., developers of the industry standard 6502 microprocessor chip. Commodore pioneered the personal computing industry with a 4KB version of the PET computer introduced in 1977.

## SYSTEM CHARACTERISTICS

The Commodore-64 is a 64K byte upgraded version of the VIC 20. It is geared to the home/hobbyist market and will play video games, perform computing functions, and synthesize music through hook-ups with stereo and hi-fi systems.

**Current models:** Commodore-64.

**Memory:** 64KB RAM.

**Workstations:** one local.

**Base list price:** \$599 including CPU, memory, keyboard.

**Typical list price:** \$1,200 including base configuration plus diskette.

**Primary uses:** accounting, banking and finance, data communications, education, entertainment, math/statistics, word processing, music synthesis.

**Popular options:** diskettes, modems, printers.

**Principal programming languages:** Basic, Assembler.

**Principal applications software:** word processing, electronic spread sheet, games.

**First shipment:** May 1982.

**Number installed to date:** new product.

**Current shipment rate:** new product.

**Available through:** computer stores, retail outlets.

The system comes with a full 66-key typewriter keyboard with upper and lower text capability, function keys, graphics characters, a cartridge game slot and game controllers. Its audio capabilities include sound generation, polyphonic tone, music synthesization, and hi-fi output.

Besides performing the normal computing functions such as record keeping, communications and word processing the Commodore-64 has a number of advanced graphic functions. Up to 256 movable objects can be defined and easily moved to create sophisticated game and business graphics.

The system attaches to a user-supplied color TV or monitor. Commodore offers a 30 cps printer for hard copy output, a modem to access telecomputing services such as Dow Jones and The Source, and a floppy diskette drive for greater storage capacity.

Because Commodore-64 will run under the CP/M operating system, various applications from independent vendors can be utilized. Additionally, Commodore is presently in the process of converting the VIC game cartridges to run on the new system. tem.

## Commodore-64

### HARDWARE/PACKAGING

#### PROCESSOR/MEMORY

Model: 6510; 8 bits  
RAM: 64KB  
ROM: 20KB

#### DISPLAY

Model: color TV or monitor  
Number: one local  
Screen size: —  
Chars./screen: 40 columns x 25 lines  
Char. type: 8 x 8 matrix  
Features: 16 text colors, 16 border/background colors, normal,  
inverse  
Graphics: PET graphics — 320 x 200 pixels high-resolution  
Interface: integral

#### KEYBOARD

Type: typewriter-style  
No. of keys: 66 total; including upper/lower case, function keys  
Interface: integral

#### DIRECT ACCESS STORAGE

Model: VIC 1540  
Type: 5¼-inch soft-sectored diskette  
Capacity/drive: 170KB  
Drives/system: 5 maximum  
Avg. access. time: —  
Transfer rate: 62.5 KBS  
Interface: serial  
Price: \$599

#### PRINTER

Model: VIC 1515  
Type: dot matrix  
Paper: 8-inch plain paper, tractor feed  
Char. set: ASCII set and PET graphics  
Chars./line: 80  
Speed: 30 cps  
Interface: serial  
Price: \$395

#### DATA COMMUNICATIONS

Model: VICMODEM  
Trans. mode: half or full duplex  
Protocol: asynchronous  
Lines: one

Speed: 300 baud  
Interface: direct to user port  
Price: \$109.95

#### OTHER I/O

Magnetic tape: C2N Datasette Recorder (\$74.95)

#### I/O ELECTRONICS

Structure: CBM serial bus, 44-pin expansion port/cartridge slot, RS-232-C port, game port

### SOFTWARE

#### LANGUAGES

Basic: PET Basic (included in system price)  
Assembler: 6502 assembler (included in system price)

#### OPERATING SYSTEM

Name: included in base system; CP/M (optional)  
System requirements: 64KB RAM  
Concurrent tasks: one

#### UTILITIES

Sort: none  
Text editor: none

DATABASE MANAGEMENT SYSTEMS: none specified

COMMUNICATIONS SUPPORT: Terminal Emulator Package  
(\$14.95-tape; \$39.95 cartridge)  
System requirements: base unit, modem

#### APPLICATIONS PROGRAMS

Word Processing: (\$14.95 tape; \$99.95 cartridge)  
Games: VIC cartridges to be converted (\$29-\$39.95)

### SUPPORT SERVICES

#### DOCUMENTATION

Range: user guide included in system price

#### SUPPORT

Training & education: none  
Maintenance: third party contracts available through TRW

#### TERMS AND CONDITIONS

Lease terms: none  
Discounts: 15% by some retailers  
Warranties: 90 days parts and labor■