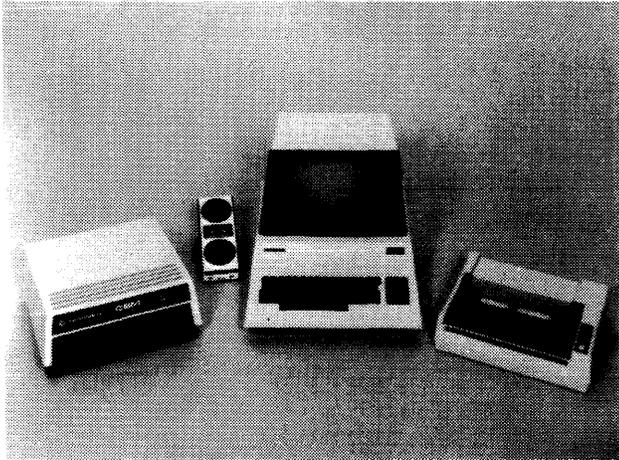


# Commodore CBM Business Systems



The Commodore CBM Business System depicted above consists of a fully-integrated CPU with built-in CRT, 32KB RAM memory, 18KB ROM, a typewriter-style keyboard, and a 10-key pad for rapid numeric entry. Peripherals include 5 1/4" dual diskette drive, 65 cps printer, and 300 bps modem.

## 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), was established in 1976, following acquisition by Commodore of MOS Technology, Inc., a manufacturer of semiconductor and memory devices and microprocessors. CBM is a subsidiary of Commodore International, Ltd., which was formed in Canada in 1958 as a marketing organization, assembling and selling typewriters and electromechanical business machines.

The parent company was primarily manufacturing electromechanical calculators and adding machines, but in 1968 it ceased producing these products and, by 1970, was assembling and marketing electronic calculators, carrying its own name.

After acquiring Optical Diodes, Inc., Frontier Manufacturing, Inc. and MOS Technology in 1976-1978, Commodore had the capability of producing the MOS 6502 microprocessor. Commodore's successful entry into the computer industry evolved from its development of the 6502 computer-on-a-chip microprocessor. The company is best known through its highly popular PET personal computer.

**Current models:** CBM 8032.

**Memory:** 32KB RAM; 340KB-1MB diskette.

**Workstations:** 1 local.

**Base list price:** \$1,495, including processor, memory, CRT with keyboard.

**Typical list prices:** \$2,290, including processor, memory, CRT with keyboard, and printer.

**Primary uses:** accounting, banking, education, engineering, entertainment, insurance, manufacturing, mathematics, payroll, and personnel.

**Popular options:** from CBM—single and dual floppy disks, modem, cassette recorder, printer.

**Principal programming languages:** Basic.

**Principal applications software:** general accounting, financial management, inventory management, job cost/bid management, customer information management, personnel, education, word processing, medical, legal, information retrieval.

**First shipment:** 1980.

**Number installed to date:** about 50,000.

**Current shipment rate:** information not available.

**Available through:** company owned sales organization in 8 countries, and distributors in 25 countries, and 700 dealers nationwide.

## SYSTEM CHARACTERISTICS

The CBM Business System is a microcomputer that has 32K bytes of main memory, a built-in video display terminal, and I/O supported through an IEEE-488 interface. The high-resolution green phosphor screen, designed to prevent eye fatigue, displays 8 x 8 dot matrix characters in an 80 characters x 25 line format.

Both models of CBM dual drive floppy information storage are intelligent peripherals and require no space in the computer's RAM memory. Significant features like an error-detector light and an in-use light, along with an operating system which enables a program to read or write data in the background, while transferring data to the CBM, make the dual-drive floppy diskettes convenient for storage and retrieval requirements.

A tractor-feed printer adds versatility and convenience to the system via full PET graphics, variable line spacing, programmable characters and character enhancement capabilities.

There are well over 600 programs and program packages available from CBM and independent sources, including financial, education and systems software for programmers. Commodore has detailed the full complement of software in the Commodore Software Encyclopedia, which sells for \$9.95

## Commodore CBM Business Systems

### HARDWARE/PACKAGING

#### PROCESSOR/MEMORY

Model: MOS 6502; 8-bits  
RAM: 32KB RAM  
ROM: 18KB  
System prices: \$1,495 (base system)

#### DISPLAY

Model: included in systems configuration  
Number: 1 local  
Screen size: 12 inch  
Chars./screen: 2000 characters; 80 characters/line, 25 lines/screen  
Char. type: upper/lower case; 8 x 8 dot matrix  
Features: error detector light, in-use light  
Graphics: PET graphics  
Interface: IEEE-488  
Price: included in basic price

#### KEYBOARD

Type: alphanumeric typewriter-style with graphics capability  
No. of keys: 73 total, with 10-key numeric pad  
Interface: IEEE-488

#### DIRECT ACCESS STORAGE

Model:	<u>CBM 4040 Dual Drive</u>	<u>CBM 8050 Dual Drive</u>
Type:	5¼" diskette	5¼" diskette
Capacity/drive:	170KB	509KB
Drives/system:	0-16; 2/controller	0-16; 2/controller
Avg. access time:	383 milliseconds	383 milliseconds
Transfer rate:	62.5 KBS	62.5 KBS
Interface:	IEEE-488	IEEE-488
Price:	\$1,295 with controller	\$1,795 with controller

#### PRINTER

Model: CBM 4022 Printer  
Type: matrix, impact  
Paper: fan-fold, tractor, 10"  
Char. set: 256, 6 x 10 dot matrix  
Chars./line: 80  
Speed: 80 cps bidirectional  
Interface: IEEE-488  
Price: \$795

#### DATA COMMUNICATIONS

Model: 8010 CBM modem (\$279.95)  
Trans. mode: half or full-duplex  
Protocol: asynchronous  
Lines: one  
Speed: 80 cps bidirectional  
Interface: IEEE-488

#### OTHER I/O

Magnetic tape: C2N CBM External Cassette Recorder/Player (\$74.95)

#### I/O ELECTRONICS

Structure: 4 integral plug connectors; IEEE-488; 8-bit parallel I/O port, 2 cassette ports, memory and I/O expansion connector

### SOFTWARE

#### LANGUAGES

Basic: Microsoft Floating Point Basic (no-charge); Compiled Integer Basic (\$150)  
Assembler: Assembler Development Package (\$100)  
Pascal: Pascal Development Package (\$295); UCSD Pascal

#### OPERATING SYSTEM

Name: Operating System in ROM  
System requirements: base system  
Concurrent tasks: one  
Other functions: I/O device handling; keyboard and screen editing; file manager; machine language monitor

#### UTILITIES

Sort: available from independent sources  
Text editor: yes, Wordcraft '80 (\$395)

#### DATABASE MANAGEMENT SYSTEMS

Name: OZZ (\$395)

COMMUNICATIONS SUPPORT: Orion—Communication Driver (no charge)

#### APPLICATIONS PROGRAMS:

Business: OZZ—The Information Whizard (\$395), Dow Jones Portfolio Management System (\$149.95), Tax Preparation System (\$495), Legal Time Accounting (\$595), Medical Accounting System (\$595), Information Retrieval and Management Aid (\$495)  
Word Processing: WORDCRAFT '80 (\$395)  
Entertainment: Galaxy One (24 games) (\$49.95)  
Numerous other software packages from independent sources are detailed in The Commodore Software Encyclopedia (9.95)

### SUPPORT SERVICES

#### DOCUMENTATION

Range: user's guides and programming manuals are available ranging in price from \$6.95-\$19.95 each

#### SUPPORT

Training and education: none from Commodore; available at discretion of dealer  
Maintenance: third party maintenance agreement through TRW, 200 locations nationwide

#### TERMS AND CONDITIONS

Lease terms: none  
Discounts: none officially available at retail level; some dealers and mail order houses will offer up to 15% off list  
Warranties: 90-day parts and labor  
Software terms: outright purchases ■