Three Workstations in One

The IBM Personal Computer AT/370 is an extension of the IBM Personal Computer AT that can operate as:

- A personal computer
- A 3278/79 display

A single VM/CMS machine running CMS applications.

This system enables the data processing professional, the engineering scientific professional, or the business executive to extend CMS programs and to access the host, as needed. The CMS user interface remains consistent between the workstation and the host.

Up to three concurrent sessions can be established by the user. For example, a user can initiate a local CMS session, a 3278 host interactive session, and an optional host interactive session using the 3101 Emulation Program.

Features: Design features include:

- Intel 80286 Microprocessor
- Adjustable 84-key detached keyboard featuring 10 programmable function keys, a numerical keypad, cursor control keys, and green LED indicator lights when “Number Lock,” “Scroll Lock,” and “Caps Lock” are in use.
- Online storage capacity from 21.2 to 41.2 MB
- 64KB of user memory when in PC mode, 48KB read-only memory (ROM) when in VM/PC mode
- Ability to address up to 8MB of virtual memory

Performance: The IBM Personal Computer AT/370, when operated under VM/PC as a CMS Workstation, executes instructions at 40% of the speed of a 4331 Model Group 1 doing commercial work and at 1.25 to 2 times the speed of a 4331 Model Group 1 performing scientific calculations. Trivial XEDIT commands are performed with less than one second response time.

Service: The IBM Personal Computer AT/370 comes with a one-year warranty. IBM’s system service can carry-in, mail-in, or set up your personal computer AT/370 to communicate with your system. IBM AT/370, when operating under VM/PC as a CMS Workstation, executes instructions at 40% of the speed of a 4331 Model Group 1 doing commercial work and at 1.25 to 2 times the speed of a 4331 Model Group 1 performing scientific calculations. The Trivial XEDIT command is performed with less than on second response time.

The IBM marketing representative can also provide you with information on available system software, including the IBM Personal Computer Disk Operating System 5.0 with Disk BASIC and Advanced BASIC, as well as VM/PC 1.1 and other Personal Computer software that will operate on the IBM Personal Computer AT/370. You can also ask about the broad range of application packages and languages available to help you get the most out of your IBM Personal Computer AT/370 investment. These packages include a wide range of system language and media processing professional, engineering scientific professional, and business professional.
including three foreground colors that may be used against a fourth background color, 13-inch (diagonally measured) screen—plus brightness and contrast controls.

Highlighting Choices: Blinking, reverse image, and high intensity

Electrical: 60Hz, 120V AC, 1 amp
Attachment: Via optional Color/Graphics Adapter
Limitation: There is only default color support in 3278/79 mode.

Enhanced Color Display 5154 Model 1

Size: Width – 15.5 inches, Depth – 17 inches, Height – 11.5 inches
Weight: 32 lb.
Display Capability: Up to 25 lines of text in 64 colors at one time from a palette of 16 colors in PC mode (64x128 pixels); 13-inch screen (measured diagonally)—plus brightness and contrast controls.
Highlighting Choices: Blinking, reverse image, and high intensity

Electrical: 50/60Hz, 90-137V AC
Attachment: Via optional Enhanced Graphics Adapter for display capability described above or via optional Color/Graphics Adapter for display capability described under 5153 Color Display
Limitation: There is only default color support in 3278/79 mode.

Graphics Printer 5152 Model 2

Size: Width – 15.7 inches, Depth – 14.5 inches, Height – 4.3 inches
Weight: 12.5 lb.
Print Capability: Up to 80 characters per second, four modes of all points addressable graphics, 18 character styles, up to 132 characters per line, 9x9 dot matrix

Other IBM PC AT Options

• One additional high-capacity Diskette Drive or double-sided Diskette Drive can be installed in the system unit.
• In IBM PC AT mode only:
  - BSC Adapter
  - SDLC Adapter
  - Math Co-processor (80287)
  - PC Network Adapter
  - 5175 Professional Graphics Display and Professional Graphics Controller
  - Data Acquisition and Control Adapter
  - General Purpose Inter-Base Bus Adapter

Software Summary

• All IBM PC AT Software Offerings
• VM/PC, which includes:
  - CMS
  - Host file server
  - DOS file export/import
  - Spooling
• IBM System/370 programs that can be licensed to the IBM PC AT/370:
  - OS/VS COBOL Compiler and Library
  - OS/VS COBOL Library
  - COBOL Interactive Debug
  - VS FORTRAN Compiler and Library
  - VS FORTRAN Interactive Debug
  - Pascal/VS
  - IBM BASIC Processor and Library
  - PL/I Optimizing Compiler and Libraries
  - PL/I Transient Library
  - PL/I Resident Library
  - Assembler H
  - Document Composition Facility (SCRIPT/VS)
  - Interactive Instructional Authoring System
  - Interactive Instructional Presentation System
  - Display Management System/CMS
  - VM Interactive Productivity Facility (FLIST and BROWSE functions supported)
  - Interactive System Productivity Facility
  - Interactive System Productivity Facility/PDF
  - CMS Sort for VM/CMS and CMS Sort Extensions
  - High Accuracy Arithmetic (ACRITH)
  - Subroutine Library (Release 2)
  - The Information Facility (TIF)