



Immediate Release

# Fact Sheet

Options

International Business Machines Corporation  
Information Systems Group  
900 King Street  
Rye Brook, New York 10573

## IBM Music Feature

The IBM Music Feature can generate 336 voices or instruments, with up to eight instruments being played simultaneously. Up to two adapter cards can be installed in an IBM Personal System/2 (TM) computer, bringing the total number of notes which may be played simultaneously to 16.

## IBM 3363 Optical Disk Drive

The IBM 3363 Optical Disk Drive uses a small, removable disk that immediately increases the storage capacity of IBM's new computers by at least 200 megabytes (MB) and with the proper attachments this external disk drive can store up to 1.6 gigabytes of data.

## IBM Personal System/2 1.44MB Diskette Drive

This feature is a double-sized, 3.5-inch internal diskette drive that supports 3.5-inch media providing 1.44MB of formatted storage capacity. In the low density mode it is compatible with the 720 kilobyte (KB) 3.5-inch drive; in the high density mode it doubles the data capability to 1.44MB.

## IBM Personal System/2 5.25-Inch External Diskette Drive

This option is an external 5.25-inch diskette drive unit that allows users to transfer data files and execute programs that follow DOS and BIOS procedures from 5.25-inch media. It is installed as the "B" drive and operates in the same fashion as a normal system "B" drive. It attaches to the IBM Personal System/2 Models 8530, 8550, 8560 and 8580.

## IBM 3.5-Inch Internal Diskette Drive

This option is offered as a "B" drive only attachment running under DOS 3.2 (5.25-inch media) on the IBM Personal Computer XT (TM) Models 88, 89, 267, 268, 278, 286 and IBM Personal Computer AT (R) Models 319 and 339. It allows the user to utilize programs that are available on 3.5-inch diskettes, or save data onto 3.5-inch diskettes for use with an IBM PC Convertible or Personal System/2 family system product, or to copy allowable 5.25-inch programs. An external version of this diskette drive also is available.



### IBM Personal System/2 Data Migration Facility

This is a parallel port to parallel port data transfer device connecting an IBM 5150, 5155, 5160 or 5170 (earlier generations of IBM's personal computing systems) to the new IBM Personal System/2 family of computers so that data and programs can be transferred from one system to another. The conversion method requires a standard IBM printer cable to connect the two parallel ports.

### IBM 6157 Tape Drive Adapter

This adapter supports attachment of the IBM 6157 Streaming Tape Drive to the new systems and provides fast, convenient save/restore and data interchange capability.

### IBM Personal System/2 44MB Fixed Disk Drive

This fixed disk drive option is available on the 8580-041 only. It is attached via the standard disk drive adapter provided with the system unit and does not require an additional expansion slot. Formatted capacity: 44MB, 512 bytes per sector, 17 sectors per track, 733 cylinders; transfer rate of 5 million bits per second; access time, including settle, track to track is 10 ms, average is 40 ms, maximum is 80 ms.

### IBM Personal System/2 70MB Fixed Disk Drive

The 70MB fixed disk drive is provided for the 8580-071 only. This file attaches via the high performance (ESDI) disk adapter provided with the system unit and does not require an additional expansion slot. Formatted capacity: 70MB, 512 bytes per sector, 36 sectors per track, 583 cylinders; transfer rate of 10 million bits per second; access time for single cylinder seek is 5 ms average, average seek is 30 ms weighted and full seek is 60 ms maximum.

### IBM Personal System/2 Multiprotocol Adapter/A

This option provides a full-duplex or half-duplex multiprotocol serial data transmission channel. It supports asynchronous, bisynchronous, HDLC, or SDLC protocols. It will support modems or direct attachment. The option is programmable at speeds of up to 19,200 bps and supports automatic protocol switching via software at setup.

### IBM Personal System/2 300/1200 Internal Modem/A

The 300/1200 Internal Modem/A provides the capability to transmit data in duplex mode over the Public Switched Telephone Network at 300 or 1200 bits/second and supports the AT command set. The 300/1200 modem is compatible with the Bell 212A and 103 practice (asynchronous only) recommendation for transmitting data over the Public Switched Telephone Network.



### IBM Personal System/2 Mouse

The two-button mouse is available for applications that operate more efficiently using a pointing device. The mouse attaches to the system pointing device port and requires no additional hardware features or external power. A device driver is packaged with each mouse for addition to the operating system.

### IBM Personal System/2 8087 Math Coprocessor

This feature is a high-performance numeric data coprocessor extension with floating point, extended integer, and BCD data types. When installed, it works in parallel with other system functions and enables the system to perform high-speed arithmetic, logarithmic functions, and trigonometric operations.

### IBM Personal System/2 80387 Math Coprocessor

Used on IBM's Personal System/2 Model 80, the 16 MHz or 20 MHz 80387 math coprocessor provides additional processing power and performance for application programs requiring many or repetitive arithmetic calculations. The 80386/80387 conforms to the ANSI/IEEE floating-point standard and runs most applications written for the 80286/80287 and 8086/8087 based systems unmodified.

### IBM Personal System/2 Speech Adapter

This adapter allows the user to add voice capability. It provides two technologies for speech reproduction: speech encoding (speech to data) and decoding (data to speech) using a Continuously Variable Slope Delta modulation technique and speech synthesis using Linear Predictive Coding. Non-application-oriented software support needed to control the speech adapter is incorporated into an internal read only memory module.

### IBM 2MB Expanded Memory Adapter

This option provides 2MB of expanded memory function and a standard parallel printer port. When utilized with the 3270 PC Workstation Control Program Version 1.0 or 1.1, it provides a solution to users who have reached the 640KB limitation of their system memory in executing large applications. The adapter will provide capability of MFI or native mode, expanded memory function for up to six concurrent DOS sessions, and the use of device drivers (EMS and VDISK) to manipulate large amounts of data that expand the number of applications that can be run on base systems. The card is for use on the IBM Personal Computer AT, the IBM Personal Computer XT, the IBM 3270 Personal Computer, the IBM 3270 Personal Computer AT and Model 30 of IBM Personal System/2.



#### IBM Personal System/2 80286 Expanded Memory Adapter/A

For IBM Personal System/2 Models 50 and 60, this memory adapter card provides 2MB of expanded memory function. It requires and supports the device drivers resident within the IBM 3270 Workstation Program Version 1.0 or 1.1. This memory card will actually bring the computer's internal memory system to 3MB because it will add 2MB of usable memory to the 1MB RAM already existing in IBM's new 80286 personal computing systems.

#### IBM Personal System/2 80286 Memory Expansion Option

This option provides 512KB of memory as standard. Up to three 80286 Memory Expansion Kits, with 512KB each, can be added to the expansion option to provide a maximum of 2MB of memory for each card.

#### IBM Personal System/2 80286 Memory Expansion Kit

This feature provides 512KB of memory and can only be installed on the IBM Personal System/2 80286 Memory Expansion Option. No switch setting is required. Up to three kits can be installed on each Memory Expansion Option.

#### IBM Personal System/2 80386 Memory Expansion Option

The 80386 memory expansion option is a single full-length card for Model 80 that comes standard with 2MB, 80 ns memory. Up to two memory expansion kits can be added to the card to provide a total of 6MB of memory. Additional 80386 memory expansion options can be installed to provide a maximum of 16MB of memory on the system. This option can be used without fully populating the system board memory slots and has no switch setting requirements.

#### IBM Personal System/2 80386 System Board Memory Expansion Kit

This 80386 memory expansion kit provides 1MB of 80 nanosecond memory for Model 8580-041 only on the system board. The addition of this feature completes the 2MB capacity of the system board. No switch setting is required.

#### IBM Personal System/2 80386 Memory Expansion Kit

This 80386 memory expansion kit uses the new 1 megabit chips, provides 2MB of 80 nanosecond memory and can be installed only on the IBM Personal System/2 80386 Memory Expansion Option. Memory read operations are performed at the same speed as the system board memory through the use of a unique architectural feature called "matched memory cycle." No switch setting is required.

### IBM Personal System/2 High Speed Adapter/A

The adapter is designed to provide an RS422A standard industry interface for attachment of the IBM 3118 Scanner or the IBM 3117 Scanner with extension unit attachment to the IBM 8580, thus permitting the sending of image data to the Model 8580 at a maximum speed of 1 megabit per second. It is programmable and supports asynchronous and synchronous communications protocols.

### IBM 3270 Connection

This is an adapter that provides 3270 Display Station Emulation for the IBM Personal System/2 Models 50, 60 and 80 (041-071 only). It will fit either the floor or desktop model. Diagnostics are provided with the card. This adapter shows IBM's continuing support for attachment of IBM intelligent workstations to host systems. When used with an IBM Personal Computer 3270 Emulation Program, it facilitates emulation with host file transfer and concurrent application capabilities.

### IBM 3278/79 Emulation Adapter

This emulation adapter is a circuit card that plugs into any slot in the IBM Personal Computer AT, XT and PC, the IBM Personal Computer 3270 G/GX, IBM Personal Computer RT and the IBM Personal System/2 Model 30. Most but not all of the functions of the emulated displays are supported. The IBM 3278/79 Emulation Adapter will be shipped with two different diagnostic diskettes; the diskette used will depend on the diskette drive of the system unit in which the card is installed.

### IBM Enhanced 5250 Display Station Emulation Adapter

This adapter, along with IBM Enhanced 5250 Emulation Program Version 2.12, brings to a user of the Personal System/2 Model 30 the problem-solving power of the IBM System/34, /36 or /38. It allows users to connect with one of these three systems while executing personal computer programs as well. It also runs on models of the IBM Personal Computer.

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