

## IBM PS/2 MODEL 57 SLC

### Contents

[Announcement Letter Number 192-177 dated August 11, 1992](#)

[US - Last Revised on August 11, 1992](#)

### Brief Description of Announcement, Charges, and Availability

The Personal System/2 (R) (PS/2 (R)) Model 57 SLC (8557-05F) complements and enhances the PS/2 family of Micro Channel (R) systems with the integration of the IBM 386SLC 20MHz microprocessor that includes 8KB of internal cache and the internal cache controller. Also included is a high-performance large fixed disk drive, a 2.88MB media sense diskette drive, 16-bit video graphics array (VGA), a small computer systems interface (SCSI), and 8MB of memory housed in the same versatile 5-slot/4-bay mechanical package as the other IBM PS/2 57 SX and 57 SLC systems.

The model 8557-05F is offered with disk capacity of 400MB (million bytes).

The system is designed to allow the flexibility of horizontal or vertical operation and ships with a stand that is required for use in the vertical orientation. Five 16-bit Micro Channel slots allow users to expand and customize system function. A fixed disk and diskette drive are installed in each system, and two expansion bays are available to accept additional 5.25-inch and 3.5-inch diskette drives, fixed disks, tape, CD-ROM or other devices. The SCSI controller is integrated in the planar, therefore no slot is required to attach up to seven SCSI devices (including the standard fixed disk). Two additional SCSI devices may be installed internally and the remainder externally via the external connector.

Memory: The PS/2 Model 57 SLC (05F) comes with two 4MB, 70ns single in-line memory modules (SIMMs) and allows installation up to a total of 16MB of 70ns memory on the planar. The memory controller automatically supports enhanced performance via memory interleaving

with appropriate memory configurations.

The standard video for the PS/2 Model 57 SLC (05F) is 16-bit VGA.

The IBM PS/2 Model 57 SLC supports the IBM Enhanced Keyboard (101-key), Space Saving Keyboard (84-key) or the IBM Host Connected Keyboard (122-key) and a variety of languages. The keyboard selection can only be specified in new equipment orders and cannot be ordered separately for on-order or installed equipment.

Planned Availability Date: August 11, 1992.

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IN BRIEF . . .

- o IBM exclusive 386SLC processor with 8KB of internal cache memory and internal cache controller
- o 8MB standard memory expandable to 16MB on the system board
- o Easier system installation (preinstalled operating system)
- o Matching industry leadership operating system (OS/2) and processor (IBM 386 SLC)
- o Increased capacity 2.88MB diskette drive with media sense, providing read/write capability for 720KB, 1.44MB and 2.88MB diskettes
- o 16-bit VGA graphics
- o Configuration and expansion flexibility with five Micro Channel slots and two 5.25-inch bays
- o Choice of vertical or horizontal orientation to maximize end-user space utilization

### **Customer Letter Section**

DESCRIPTION

BUSINESS SOLUTIONS

The PS/2 Model 57 SLC (05F) supports the customer's business objectives by providing the processor, graphics performance, large fixed disk space and ample standard memory required by many users. The Micro Channel architecture offers a fast, efficient and reliable data flow with a large selection of optional adapters. The PS/2

Model 57 SLC (05F), with its optional features and compatible operating systems and applications, provides a solution for a wide range of applications. Along with other systems of the PS/2 family, it can provide a total stand-alone or network system solution.

The integrity and availability of OS/2 Version 2.0 makes it the ideal platform for desktop, networking, communications and multimedia solutions. The predictable performance, transparent LAN access and background processing make it the true integrating platform for desktop productivity. The preinstalled OS/2 Version 2.0 and large high-performance fixed disk of the PS/2 Model 57 SLC (05F) provides a superior solution for small, medium and large enterprise businesses.

#### INVESTMENT PROTECTION

The high degree of compatibility between the Model 57 SLC and other PS/2 devices protects the investment the customer has made in PS/2 hardware and software. An extensive list of Micro Channel options is supported. The system may be upgraded with the addition of up to five adapters and two internal I/O devices. Up to seven SCSI devices can be attached, three internally and four externally.

The PS/2 Model 57 SLC (05F) system can be upgraded by adding the IBM PS/2 486SLC2 Processor Upgrade (#2310, 32G3672) announced last June. This upgrade will be available on September 22, 1992. The faster processor upgrade will provide investment protection for the PS/2 Model 57 SLC (05F) system.

#### GROWTH ENABLEMENT

The PS/2 Model 57 SLC supports application development and growth through expansion features. The standard system memory may be expanded to 16MB on the system board. Five available 16-bit Micro Channel slots allow the addition of options for additional applications. Two available direct access storage devices (DASD) bays provide for the addition of 3.5-inch and 5.25-inch DASD devices (for example fixed disks, diskette drives, tape drives and CD-ROM).

Preinstalled OS/2 2.0 provides the application developer a platform that will support new, 32-bit applications, and open new computing horizons such as object oriented programming and multimedia. In addition, OS/2 2.0 supports 16MB of addressability of the Model 57 SLC.

## USER PRODUCTIVITY

The PS/2 Model 57 SLC (05F) increases user productivity by providing:

- o A 20MHz 80386SLC microprocessor for improved computing performance
- o Enhanced VGA graphics for faster display of information
- o A 2.88MB diskette drive with media sense that allows for more data to be stored on fewer diskettes
- o Many standard features such as:
  - Keyboard port and keyboard
  - Pointing device port
  - VGA port
  - Serial port
  - Parallel port
  - SCSI port.

The system is easily installed in the horizontal or vertical orientation using the vertical stand supplied with the system.

OS/2 2.0 improves user productivity by integrating most DOS, Windows (5), 16-bit OS/2, and 32-bit OS/2 applications on a single, graphical, object oriented workplace, the OS/2 desktop. Preinstalled OS/2 further enhances productivity by providing a fully configured, ready-to-go system when powered on, along with features that enable the user to manage system configuration easily.

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## SYSTEM MANAGEMENT

Preinstalled OS/2 manages memory, hardware devices, programs, and data files to benefit all programs running on the system. OS/2 allows a mixed set of applications -- DOS, Windows, 16-bit OS/2, or 32-bit OS/2 -- to share printers and other devices, data, memory, processor and the display. It maintains a system and applications environment, and is designed to protect user and system programs and data. This integrity makes OS/2 2.0 the ideal platform for desktop, networking, communications, and multimedia solutions.

## PRODUCT POSITIONING

The PS/2 Model 57 SLC (05F) is well suited to customers who require high-end 386SX performance, industry standard graphics and significant expansion capabilities in a desktop system. The PS/2 Model 57 SLC (05F) will be attractive to customers who place high

value on investment protection, quality workmanship, flexible expansion and physical orientation. The ability to operate the PS/2 Model 57 SLC (05F) in both a vertical and horizontal orientation allows end users to make more efficient use of space. Customers may be found in small, medium and large companies.

#### PUBLICATIONS

The Quick Reference Manual (S92F-1676, 04G3382) publication is shipped with the product. Additional copies are available immediately.

The following publications are available immediately. To order, contact your IBM representative.

TITLE	ORDER NUMBER	PART NUMBER
Quick Reference Manual	S92F-1676	04G3382
Hardware Maintenance Library	S92F-1680	04G3385
Includes:		
Hardware Maintenance Reference Pamphlet		
Hardware Maintenance Service Pamphlet		
Reference Diskette		
BIOS Technical Reference	S04G-3283	04G3283
Interface Technical Reference System Specific	S84F-9807	84F9807
Architectures	S84F-9808	84F9808
Common Interfaces	S84F-9809	84F9809
Architectures Update	S04G-3282	04G3282
Common Interfaces Update	S04G-3281	04G3281
System		

Specific

Update                    S10G-6463    10G6463

The System Library Subscription Service (SLSS) is available.

DISPLAYABLE SOFTCOPY PUBLICATIONS: The IBM PS/2 Model 57 SLC (05F) Quick Reference is offered in displayable softcopy form. These displayable manuals can be used with the BookManager (TM) READ licensed programs in any of the supported environments. Terms and conditions for use of the machine-readable files are shipped with the files.

SOURCE FILE PUBLICATIONS: The IBM PS/2 Model 57 SLC (05F) Quick Reference Manual is offered as a no-charge feature for customers with special needs.

These files can be used with the BookMaster (R) and DCF licensed programs to create unmodified printed copies of the manuals. The source files can also be used with the BookManager (R) BUILD licensed program to create unmodified displayable softcopy manuals. Terms and conditions for use of the machine-readable files are shipped with the files.

#### EDUCATION SUPPORT

A description of available self-study and classroom courses is contained in the Catalog of IBM Education (G320-1244). Call IBM Direct Education at 800-IBM-TEACH (426-8322), for schedules and enrollments.

#### TECHNICAL INFORMATION

##### SPECIFIED OPERATING ENVIRONMENT

##### PHYSICAL SPECIFICATIONS:

##### PS/2 57 SLC MODELS:

	8557-05F
Processor	386SLC
Speed (MHz)	20
Memory (70ns)	8MB
Fixed Disk	400MB
Diskette Drive	2.88MB

The IBM Personal System/2 Model 57 SLC is intended for use in either a horizontal or a vertical orientation. Vertical orientation must be via the vertical stand shipped with the system.

##### 2.88 MB DISKETTE DRIVE CHARACTERISTICS:

DISKETTE SIZE:	1MB	2MB	4MB
Formatted Capacity (1)	720KB	1.44MB	2.88MB
Bytes per sector	512	512	512
Sectors per track	9	18	36
Cylinders	80	80	80
Heads	2	2	2

(1) Format capacity is diskette dependent.

#### FIXED DISK DRIVE CHARACTERISTICS:

	400MB
Formatted capacity (2)	400MB
Average seek time	11ms
Data transfer rate	2.00 MB/sec
Average latency	6.95 ms
Sector interleave	1:1

(2) The licensed system programs, which include Basic Input Output System (BIOS), set configuration and features, test, backup/restore, and update system programs, are stored in three million bytes of a protected partition on the fixed disk drive. The formatted capacity is therefore reduced by three million bytes and the total user-accessible capacity may vary slightly based on operating environments. This partition is not affected when the drive is formatted using the FORMAT command provided in DOS or OS/2. The licensed system programs are also on the IBM PS/2 Model 57 SLC (05F) Reference Diskette.

#### DIMENSIONS:

- o Width: 440mm (17.3 inches)
- o Depth: 394mm (15.5 inches)
- o Height: 169mm (6.7 inches)
- o Weight: 14.5kg (32.0 pounds)

#### ELECTRICAL:

- o Power supply: 197 watts
- o Dual voltage controlled by manual switch on back of unit
- o 100 to 125 (nominal) V ac; 50 to 60 Hz
- o 200 to 240 (nominal) V ac; 50 to 60 Hz

#### BTU OUTPUT:

- o 120 Btu/Hour (35 watts -- configuration as shipped)
- o 1030 Btu/Hour (300 watts -- maximum configuration)

## NOISE LEVEL:

- o Declared Acoustical Noise Emissions (idle mode): LWAD = 5.0 bels  
The noise emission level stated is the declared (upper limit) sound power level, in bels, for a random sample of machines, typically configured, and operating in idle mode; that is, powered on, but no DASD read/write or other I/O activity. All measurements made in accordance with ANSI S12.10 and reported in conformance with ISO 9296.

## EQUIPMENT APPROVALS:

- o FCC -- Certified to comply with Subpart J, Part 15 FCC Rules, Class B limits
- o UL -- UL 1950, 1st Edition
- o CSA -- CSA22.2 No. 220-M1986

## OPERATING ENVIRONMENT:

- o Ambient Air Temperature:
  - Power on: 10.0 to 35.0 (degs) C (50 to 95 (degs) F) at 0 to 2133m (0 to 7000 feet)
  - Power off: 10.0 to 43.0 (degs) C (50 to 110 (degs) F)
- o Relative Humidity:
  - 8% to 80%
- o Wet Bulb:
  - 22.8 (degs) C (73 (degs) F)

MACHINE REQUIREMENTS: The IBM PS/2 Model 57 SLC (05F) requires an analog display (IBM 8504, 8507, 8512, 8514, 8515, 8516, 8518 or equivalent).

PROGRAMMING REQUIREMENTS: One of the following operating systems is required for the IBM PS/2 Model 57 SLC (05F):

- o IBM DOS Version 5.0
- o IBM Operating System/2 (R) Standard Edition Version 1.30.1 (3)
- o IBM OS/2 Standard Edition Version 1.30.2
- o IBM OS/2 Extended Edition Version 1.30.1 (3)
- o IBM OS/2 Extended Edition Version 1.30.2
- o IBM OS/2 Version 2.0
- o IBM 4680 Operating System Version 2.0
- o IBM 4680 Operating System Version 4.0
- o AIX PS/2 Version 1.2.1 (with PTF P210900).

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Corporation.

(3) OS/2 Version 1.30.2 is required if 57 SLC is connected to a LAN.

COMPATIBILITY: The Model 57 SLC contains licensed System Programs, which include BIOS, set configuration and features, test, copy an option diskette, backup/restore and update system program. These System Programs are stored in a three million byte protected partition on the fixed disk drive. The initial machine load (IML) loads the BIOS program from the fixed disk drive into system memory. BIOS provides the hardware instructions and interfaces designed to support the standard features of the Model 57 SLC and to maintain compatibility with many software programs currently operating under DOS and OS/2 on the IBM Personal Computer XT (TM), IBM Personal Computer AT (R) and the IBM Personal System/2 family.

Because of the high level of integration, features such the PS/2 Micro Channel memory adapter options are not supported.

Because of the recent introduction of the new 2.88MB diskette drive, earlier versions or releases of operating systems or applications may not format diskette media correctly. Use of the proper level of operating system along with the new 2.88MB diskette drive will provide media sense of the 720KB, 1.44MB, and 2.88MB diskettes, giving greater ease in formatting, reading and writing diskettes.

NOTE: Refer to the 8557 Sales Manual pages, or contact your IBM representative, for a complete list of supported features and options, and compatible IBM and vendor software. The Sales Manual is updated periodically.

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LIMITATIONS: The PS/2 Model 57 SLC (05F) system supports only 2MB, 4MB, and 8MB 70ns single in-line memory modules (SIMMs). To take advantage of enhanced performance via interleaved memory, SIMMs should be installed using all 2MB or all 4MB SIMMs. One, two or three 2MB SIMMs provide memory interleaving. Two or three 4MB SIMMs also provide memory interleaving. The 8MB SIMMs do not provide interleaving.

With 24-bit addressing, the maximum addressable memory space

is 16MB (Megabytes). The system reserves 128KB of memory when BIOS/POST is copied to RAM for execution in systems with less than 16MB of planar memory. The system reserves 1.375MB of memory in systems with 16MB of planar memory.

Refer to the PROGRAMMING REQUIREMENTS section for operating systems limitations.

The licensed System Programs include BIOS, set configuration and features, copy an option diskette, test, backup/restore, and update system program. These licensed System Programs are stored in three million bytes of a protected partition on the fixed disk drive. The formatted capacity is therefore reduced by three million bytes and the total user-accessible capacity may vary slightly based on operating environments. This partition is not affected when the drive is formatted using the FORMAT command provided in DOS or OS/2. The licensed System Programs are also provided on the IBM Personal System/2 Model 57 SLC Reference Diskette. High performance BIOS uses 128KB of system memory.

Display adapter cards that use the Auxiliary Video Extension, when installed in an IBM PS/2 Model 57 SLC (05F), require installation in slot 2 and the attachment of a display to the system video connector during configuration of the system. The American National Standards Institute (ANSI) SCSI specification for the total SCSI cable length connected to a SCSI interface is six meters (approximately 19.7 feet) maximum. The length of the SCSI cable inside the Model 57 SLC is one meter. Therefore, the total length of all SCSI cables for external devices that operate from the external SCSI connector may not exceed a maximum of five meters (approximately 16.5 feet) including the cables inside each SCSI device.

The following Micro Channel adapters, options and cables are NOT supported by the IBM Personal System/2 Model 57 SLC:

- o IBM Personal System 5.25-inch External Diskette Adapter/A (#8760, 6450245)
- o IBM Personal System/2 0-8MB Expanded Memory Adapter/A (#7259, 1497259)
- o IBM Personal System/2 1-8MB 286 Memory Expansion Adapter/A (#8285, 6450685)
- o IBM Personal System/2 2-8MB 286 Memory Expansion Adapter/A

- (#8286, 6450609)
- o IBM Personal System/2 5.25-inch 1.2MB Internal Diskette Drive (#1006, 6451006)
- o IBM 3363-A11 Optical Disk Drive
- o IBM 3363-B01 Optical Disk Drive
- o IBM Personal System/2 Image Adapter/A (#4324, 07F4400)
- o IBM Personal System/2 Image Adapter/A 1MB (#0072, 44F9626)
- o IBM Personal System/2 Image Adapter/A 3MB (#0073, 69F9724)
  
- o IBM Personal System/2 Image Adapter/A 3MB 6091 (#0074, 44F9921)
- o IBM Realtime Interface Co-Processor Portmaster (TM) Adapter/A -- 512KB (#6360, 53F2601)
- o IBM Realtime Interface Co-Processor Portmaster Adapter/A -- 1MB (#6364, 53F2604)
- o IBM Realtime Interface Co-Processor Portmaster Adapter/A -- 2MB (#6368, 53F2607)
- o IBM Realtime Interface Co-Processor 8-Port RS-232 Interface Board/A (#6362, 53F2610)
- o IBM Realtime Interface Co-Processor 8-Port RS-422 Interface Board/A (#6363, 53F2613)
- o IBM Realtime Interface Co-Processor Selectable Interface Board/A (#6365, 53F2616)
- o IBM Realtime Interface Co-Processor Portmaster 8-Port Cable (#6366, 53F2619)
- o IBM Realtime Interface Co-Processor Selectable Cable (#6367, 53F2622)
- o IBM Realtime Interface Co-Processor x.21 Cable (#6717, 57F2746)
- o IBM Realtime Interface Co-Processor V.35 Cable (#6718, 57F2748)
- o IBM Realtime Interface Co-Processor Surge Protection Adapter (#6361, 53F2625)
- o IBM Realtime Interface Co-Processor 8-Port RS-232 Interface Board/A Hardware Maintenance Library (#6206, 33F5338)
- o IBM Realtime Interface Co-Processor 8-Port RS-422 Interface Board/A Hardware Maintenance Library (#6207, 33F5339)
- o IBM Realtime Interface Co-Processor Selectable Interface Board/A Hardware Maintenance Library (#6208, 33F5340)
- o IBM Realtime Interface Co-Processor Six-Port V.35 Interface

Board/A (#1210, 72F0163)

- o IBM Realtime Interface Co-Processor Six-Port V.35 Interface Board/A Hardware Maintenance Library (#1212, 72F0166)
- o IBM Realtime Interface Co-Processor Six-Port X.21 Interface Board/A (#1170, 72F0176)
- o IBM Realtime Interface Co-Processor Six-Port X.21 Interface Board/A Hardware Maintenance Library (#1171, 72F0178)
- o IBM Realtime Interface Co-Processor 6-Port V.35 Cable (#1211, 72F0165)
- o IBM Realtime Interface Co-Processor 6-Port X.21 Cable (#2028, 05F2028).

#### PLANNING INFORMATION

**CUSTOMER RESPONSIBILITIES:** The PS/2 Model 57 SLC (05F) system is designated as customer setup. Customer setup instructions are shipped with the system.

**CABLE ORDERS:** There are no cabling requirements other than for system power, keyboard and display connections. Cables are provided with the system unit and display, and the instructions are provided as part of the initial setup.

**INSTALLABILITY:** The PS/2 Model 57 SLC (05F) requires about 15 minutes for installation. Installation includes unpacking, setting up and powering on the system. Additional time is required to install other adapters and features.

#### HELPWARE (TM) SUPPORT:

- o PS/2 HelpCenter

The customer can ask any questions about the preinstalled operating system or the mouse, by calling the HelpCenter at 800-PS2-2227 (772-2227). An IBM representative will work with the customer to answer any questions including how to get started with DOS applications, how to delete modules to free up fixed disk space, and will provide references to support offerings, education and any other solutions necessary to ensure customer satisfaction.

- o 30-Day Money Back Guarantee

As with all our PS/2 products, IBM has a high level of confidence in the capability of the product to meet the end user's needs. Therefore, this product is eligible under the

30-day money back guarantee program. The preinstalled system may be returned to the place of purchase, for any reason, within 30 days. The returned system must include all components and must be returned following the procedures in the National Distribution Division's announcement NDD 92-147, dated March 17, 1992, or contact your IBM representative or IBM Authorized Remarketer.

However, if the end user's requirements are best addressed by DOS 5.0 and is satisfied with the system overall, the preinstalled system should not be returned. Instead, the PS/2 HelpCenter should be contacted. The PS/2 HelpCenter will assist the customer by providing DOS 5.0 to replace the preinstalled OS/2 on the system and instructing the end user on how to initiate a self-destruct procedure for the OS/2 Version 2.0.

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#### PACKAGING:

PRODUCT	SHIP GROUP
IBM PS/2	
Model 57 SLC	System Unit Carton
	8557-05F
	U.S. English Customer
	Information Assembly
	-- Quick Reference
	-- OS/2 Version 2.0
	Document Pack
	-- PS/2 Mouse
	-- U.S. Line Cord
	-- Keyboard Cable

PRODUCT	SHIP GROUP
IBM PS/2	
Model 57 SLC	Keyboard Carton (customer
	selection dependant)
	IBM Enhanced Keyboard
	(101 key) (default)
	or
	Keyboard Carton (customer
	selection dependant)
	IBM PS/2 Space Saving

Keyboard (84 key)

or

Keyboard Carton (customer  
selection dependant)

IBM Host Connected Keyboard  
(122 key)

ACCESSORIES AND/OR SUPPLIES: The 3.5-inch, 4.0MB diskettes (72X6111) can be purchased from IBM Authorized Supplies Dealers, IBM Authorized Distributors, or from IBM Telemarketing Operations (TMO). Call IBM TMO at 800-IBM-2468 (426-2468). Mail orders should be sent to:

IBM Corporation  
IBM Telemarketing Operations  
One Culver Road  
Dayton, NJ 08810

#### SECURITY, AUDITABILITY AND CONTROL

Security and auditability features of this product are:

- o A mechanical lock to allow the user to lock the system cover
- o A power-on password used to prevent the use of the system by unauthorized persons
- o Set Keyboard Password used to lock the keyboard without turning the system off
- o Set Network Server Mode allows the system keyboard to be locked to all entries except the password and at the same time, allows other computers on the network to access the fixed disk.

The small computer system interface (SCSI), as defined in the American National Standards Institute (ANSI) standard X3.131-1986, provides a port for the attachment of external devices. The IBM PS/2 Model 57 SLC (05F) is in conformance with this standard and has an external port.

A data security exposure exists, even with power-on password installed, since external SCSI controllers can attach through the external SCSI port and gain undetected read or write access to data stored on internal and external SCSI devices. Physical access to the system and external SCSI devices must be controlled to limit this exposure.

User management is responsible for evaluation, selection and implementation of security features, administrative procedures and

appropriate controls in application systems and communications facilities.

#### TERMS AND CONDITIONS

**VOLUME DISCOUNT:** Volume purchasing is available under the Volume Discounts section of the IBM Customer Agreement (ICA).

The PS/2 Model 57 SLC (8557-05F) is included in Category A, Discount Group 1, of the Volume Discount Exhibit -- Workstations and Related I/O (WКСN2).

**NOTE:** The PS/2 Model 57 SLC (8557-05F) is available for commitment attainment only, and is not offered for a discount when purchased under a volume commitment to the Volume Discount Exhibit -- Workstations and Related I/O (WКСN2).

Software components do not aggregate to the Exhibit for Personal Computer/System Programs.

For further information regarding volume orders, contact your IBM marketing representative.

**IBM CREDIT CORPORATION FINANCING:** Term leases and installment payment plans are available for commercial and state and local government customers.

**CUSTOMER FULFILLMENT OPTION APPLIES:** Yes, at the system level only.

**LICENSING:** IBM programs included with the PS/2 Model 57 SLC (8557-05F) are licensed under the terms and conditions of the IBM Program License Agreement and IBM System Programs License Agreement. A copy of these Agreements are included in the documentation that ship with the systems.

**WARRANTY PERIOD:** System Hardware: One year. OS/2 Programs: Three months.

**WARRANTY SERVICE:** Customer Carry-In Repair (CCR).

**ALTERNATIVE SERVICE:** IBM On-Site Repair (IOR).

**MAINTENANCE SERVICE:** IBM On-Site Repair (IOR).

**IBM HOURLY SERVICE RATE CLASSIFICATION:** One.

IBM Warranty Service, Maintenance Service or IBM Hourly Service may be obtained by calling 800-IBM-SERV (426-7378). IBM Hourly Service is available at the applicable rate and terms, including element exchange price if applicable.

**VOLUME MAINTENANCE OPTION:** The announced product is an eligible

machine and a qualifying machine for the Volume Maintenance Option\* of the ICA.

MID-RANGE SYSTEM OPTION: The announced product is an eligible machine for the Mid-Range System Option\* of the ICA.

ELIGIBLE TYPES	DISCOUNT PERCENT	
	THREE YEAR	FIVE YEAR
8557	17%	22%

CORPORATE SERVICE OPTION: The announced product is an eligible machine for the Corporate Service Option\* of the ICA.

\* A revised exhibit will be available at a later date.

	DISCOUNT PERCENT	
	THREE YEAR	FIVE YEAR
Network	25%	30%
System	17%	22%

EXTENDED MAINTENANCE OPTION: The announced product is an eligible machine for the Extended Maintenance Option\* of the ICA.

CENTRAL FACILITY MAINTENANCE SERVICE OPTION: The announced product is an eligible machine for Central Facility Maintenance Service Option\* of the ICA.

A minimum number of six machines is required to be at the central facility before requesting maintenance service. The Additional Maintenance Charge Factor is currently 0.5 hours. The terms and conditions are stated in the Attachment for Central Facility Maintenance Service Option.

\* A revised exhibit will be available at a later date.

PRODUCT AVAILABILITY STATUS: New product available.

CUSTOMER SETUP: Yes.

LICENSED INTERNAL CODE: No.

IBM EDUCATION ORDER CENTER: This product is available for ordering through the IBM Education Order Center. Note that availability through the Education Order Center may not coincide with the product availability dates noted in other sections of this document.

The IBM Education Order Center is the order processing location for selected personal computers and related hardware/software for eligible education end users. Eligible end users are defined as faculty and staff members of qualified kindergarten through twelfth grade educational institutions and



students, faculty and staff members of higher educational institutions that have an Education Product Coordinator.

NATIONAL EDUCATION PRICE (NEP): A National Education Price is available under the terms and conditions of the National Education Price Exhibit. The NEP price, which represents 36% discount from the single unit purchase price, is not subject to any further discount or allowance. The machine in this announcement is included in the National Education Price Exhibit.

#### CHARGES

PRODUCT: IBM PS/2 Model 57 SLC

MODEL/

MACHINE	FEATURE	PART	PURCHASE
TYPE	NUMBER	NUMBER	PRICE
8557	05F	855705F	\$4,690

WARRANTY OPTION UPGRADE CHARGE:

WARRANTY WARRANTY

OPTION OPTION

MACHINE	UPGRADE	UPGRADE		
TYPE	MODEL	FROM	TO	CHARGE
8557	All	CCR	IOR	\$40

ANNUAL MINIMUM MAINTENANCE CHARGES:

IBM	CENTRAL FACILITY
ON-SITE	MAINTENANCE
REPAIR	SERVICE
(IOR)	(CFMS)
\$400	\$380