

[Offering Information](#) > [Announcement Letters](#) >

IBM PS/2 MODEL 95 XP 486 (9595-0LF, 0MF AND 0MT)

Contents

[Announcement Letter Number 192-225 dated September 21, 1992](#)

[US - Last Revised on September 21, 1992](#)

Brief Description of Announcement, Charges, and Availability

The Personal System/2 (R) (PS/2 (R)) Model 95 XP 486 family of systems is expanded to include International Organization for Standardization (ISO) capable servers. These new 9595 machine type systems replace selected models of machine type 8595.

The PS/2 Model 95 XP 486 (9595-0LF, 0MF and 0MT) system units feature the IBM PS/2 XGA (R)-2 Display Adapter/A with 256 colors, higher screen refresh rates and non-interlaced scanning. Enhanced ergonomic benefits in the form of reduced screen flicker at high-resolution (1024 x 768) are provided when used in conjunction with appropriate software and the new IBM 95XX color displays.

PS/2 Model 95 XP 486 (9595-0LF, 0MF and 0MT) system units support the same features and provide the same basic functions previously announced with the corresponding 8595 system units.

As a result of IBM's continued commitment to improve product reliability, the new premier PS/2 product line, including all 959X models, have an on-site, three-year warranty. However, an optional one-year warranty is available via special bid.

Availability Date: September 21, 1992.

(R) Registered trademark of International Business Machines Corporation.

(1) Registered trademark of Intel Corporation.

IN BRIEF . . .

- o Intel (1) 486DX 50MHz or 486DX2 25/50MHz processor
- o Three-year warranty
- o XGA-2 Display Adapter/A providing 1024 x 768 resolution, 256

- colors and flicker-free operation
- o Standard 256KB level 2 cache (xMx models only)
- o 8MB to 16MB memory standard, expandable to 64MB on the system board
- o Error checking and correction memory (xMx models only)
- o 400MB or 1GB hard disk models -- up to 3.2GB of hard disk storage
- o 2.88MB diskette drive

Customer Letter Section

DESCRIPTION

INVESTMENT PROTECTION

The PS/2 Model 95 XP 486 (9595-0LF, 0MF and 0MT) systems are powerful, floor-standing computers that combine processor performance, large data storage capacities and enhanced system expandability. These systems are specifically designed to support the demand of network servers, multi-user host, and advanced business and technical applications.

The xMx models feature a unique processor complex that contains the 80486/50MHz processor, ECC memory controller, 256KB level two cache, and the electronic modules to support 40MB/second streaming data, System Control Blocks (SCB), Vital Product Data (VPD) and error logging functions. This processor complex can be easily upgraded on customers' systems as faster processors and/or newer functions are developed. This capability provides additional flexibility and investment protection to the customer. The xLx model features the new double-clocked 486DX2 microprocessor and support chips operating externally at 25MHz and internally at 50MHz.

All of the new PS/2 Model 95 XP 486 (9595 0LF, 0MF and 0MT) systems are built on IBM's Micro Channel (R) architecture, providing compatibility with a wide range of existing Micro Channel hardware and software applications. Also, the enhanced performance functions, 40MB/second streaming data and SCB support, of the xMx models exploit the previously announced, advanced capabilities of IBM's Micro Channel architecture.

The PS/2 Model 95 XP 486 mechanical platform provides up to

seven file storage bays. Two 3.5-inch bays are used for the 2.88MB diskette drive and the standard SCSI hard disk drive. Four available 5.25-inch or 3.5-inch bays can accommodate four more SCSI disk drives, providing expansion of up to 3.2GB of storage in selected models (two 1GB SCSI hard disk drives and three 400MB SCSI hard disk drives). Various device combinations of 3.5-inch, with or without removable media and 5.25-inch, half or full high form factors, can be installed providing a high degree of flexibility in storage configurations. Applications requiring still more storage capacity can attach the new PS/2 High Availability External Disk Array (#3514) (refer to Product Announcement 192-234, dated September 21, 1992). The PS/2 High Performance Disk Subsystem (#3515) can be attached to the 9595-xMx models to support high-end LAN server requirements (refer to Product Announcement 192-233, dated September 21, 1992).

The new PS/2 Model 95 (9595 0LF, 0MF and 0MT) systems have a total of eight 32-bit Micro Channel I/O slots (one slot is used for the IBM PS/2 Micro Channel SCSI Adapter with Cache; and one slot is used for the IBM PS/2 XGA-2 Display Adapter/A). The remaining six slots are available for future expansion and growth.

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USER PRODUCTIVITY

User productivity can be significantly affected by the total performance of the computer systems supporting the user's applications. The powerful 486 microprocessors in the PS/2 Model 95 XP 486 9595 (xLx and xMx) models provide internal processing speed of 50MHz. With 256KB level two cache on the processor complex, the xMx models significantly enhance even that processing performance. However, even greater system throughput and balanced performance is achieved by combining the processor complexes with Micro Channel architecture, high-performance SCSI hard disks and a 32-bit busmaster SCSI adapter with cache.

The new PS/2 Model 95 XP 486 (9595 0LF, 0MF and 0MT) models feature improved reliability, availability and serviceability (RAS), increasing customer productivity by significantly improving the reliability of the system. This is reflected in the enhanced three-year warranty standard for these systems.

SYSTEMS MANAGEMENT

The following features of the PS/2 Model 95 XP 486 make it well-suited for customers who require business solutions that will simplify the management of their data processing systems:

- o The standard PS/2 Micro Channel architecture
- o Easy-to-install system and options
- o Hardware and software compatible with the wide range of existing non-IBM Micro Channel compatible adapters and applications.

INTERNATIONAL STANDARDS: The PS/2 Model 95 XP 486 (9595-0LF, 0MF and 0MT) comply with International Organization for Standardization (ISO) 9241, Part 3.

PRODUCT POSITIONING

The new IBM PS/2 Model 95 XP 486 (9595-0LF, 0MF, and 0MT) systems are the most powerful models of the PS/2 product line. The popular Model 95 package introduced with the 8595 models allows high levels of system expansion with generous offerings of growth slots and DASD bays. These new PS/2 Model 95 XP 486 (9595-0LF, 0MF, and 0MT) systems combine the raw power of the 50MHz internal processing with multiple IBM technology leadership functions and high capacity data storage to form balanced performance systems, specifically designed for demanding LAN server applications. While these systems are designed primarily as LAN servers, they can also function as high-performance, technical workstations where processor performance, advanced graphics, system expansion flexibility, and large amounts of data storage are required. When used in conjunction with IBM's new 95XX color displays and appropriate software, the standard PS/2 XGA-2 Display Adapter/A provides enhanced ergonomic benefits in the form of reduced screen flicker at high-resolution, ISO compliant fonts and 256 colors. All systems maintain compatibility with a wide range of operating systems and software applications that have been developed for the PS/2.

The PS/2 Model 95 XP 486 (9595-0LF, 0MF and 0MT) systems are new additions to the PS/2 family of products and replace existing 8595-0LF, 0MF and 0MT models of the PS/2 product line (refer to Product Announcement 192-238, dated September 21, 1992).

STATEMENT OF GENERAL DIRECTION

IBM intends to announce the availability of a token-ring 32-bit

busmaster adapter that exploits the 40MB/second streaming data capability of its 50MHz server. Using the capability of the PS/2 Model 95 XP 486 (9595-0MF, and 0MT), IBM expects this adapter to be capable of achieving performance close to the theoretical capacity of a 16Mbps token-ring (at 16Mbps, adapter throughput capacity should exceed 30K frames per second).

The announcement and availability of the referenced function will be based on IBM's business and technical judgment.

PUBLICATIONS

The following publications and diskettes are shipped with the PS/2 Model 95 XP 486 (9595-0LF, 0MF, and 0MT):

- o The PS/2 Model 95 XP 486 Quick Reference Package (S53G-1146, 53G1146) contains:
 - An introduction to the computer, installation and setup, feature installation instructions, and trouble-shooting instructions.
- o The XGA-2 Device Drivers Diskette contains:
 - Device drivers for DOS Adapter Interface (AI), Windows (1) 3.1, AutoCAD (2) Release 11.

(1) Trademark of Microsoft Corporation.

(2) Registered trademark of Autodesk, Inc..

The following documentation may be ordered from IBM:

TITLE	ORDER NUMBER	PART NUMBER
Hardware Maintenance		
Library	S42G-2008	42G2008
Interface Technical Reference		
Architectures	S84F-9808	84F9808
-- Update	S10G-6466	10G6466
Common Interfaces	S84F-9809	84F9809
-- Update (9/91)	S04G-3281	04G3281
-- Update (6/92)	S10G-6464	10G6464
-- Update (9/92)	S42G-2447	42G2447
System Specific	S84F-9807	84F9807
-- Update	S41G-3108	41G3108
Video	S42G-2193	42G2193
BIOS Interface Technical		

Reference	S04G-3283	04G3283
-- Update	S10G-6467	10G6467

The IBM System Library Subscription Service (SLSS) is available.

EDUCATION SUPPORT

Details of all classroom and self-study courses are 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:

	9595-0MF	9595-0MT
Processor	486	486
Speed (MHz)	50	50
Memory (70ns)	16MB	16MB
Video Memory	1MB	1MB
Fixed Disk	400MB	1GB
Floppy Drive	2.88MB	2.88MB

Fixed Disk Drive Characteristics:

Formatted Capacity:	400MB	1000MB
Average Seek Time:	11.5ms	11ms
Data Transfer Rate:	2.0MB/s	3.0MB/s
Average latency:	6.95ms	6.95ms
Sector Interleave:	1:1	1:1

	9595-0LF
Processor	486DX2-50
Speed (MHz)	25/50
Memory (70ns)	8MB
Video Memory	1MB
Fixed Disk	400MB
Floppy Drive	2.88MB

Fixed Disk Drive Characteristics:

Formatted Capacity:	400MB
Average Seek Time:	11.5ms
Data Transfer Rate:	2.0MB/s

Average latency: 6.95ms

Sector Interleave: 1:1

The PS/2 Model 95 XP 486 is intended for use as a floor-standing system and is designed to operate in a vertical position only.

Dimensions:

Width: 203.2 mm (8 in.)

Depth: 508 mm (20 in.)

Height: 501 mm (19.75 in.)

Weight: (minimum configuration) 22. kg (50 lb.)

Weight: (maximum configuration) 30. kg (67 lb.)

Electrical:

90-137 (nominal) V ac; 50-60 Hz

180-265 (nominal) V ac; 50-60 Hz

BTU Output: minimum -- 358 BTU/Hr. (105 watts)

BTU Output: maximum -- 1903 BTU/Hr. (558 watts)

Noise Level: (Average 1 meter position -- typical machine)

Vertical floor-standing position -- 5.3 bels (idling)

NOTE: 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 disk drive read/write or other I/O activity. All measurements are made in accordance with ANSI S12.10 and reported in conformance with ISO 9296.

o Equipment Approvals and Safety:

- FCC -- Certified to comply with Part 15 of the FCC Rules (class B)
- UL -- UL478 5th edition
- CSA CS220

o Medical Environment:

- The PS/2 95 XP 486 will not exceed the current leakage requirements established by the National Fire Protection Code NFPA99 for data processing use in hospital environments.
- The current leakage of the PS/2 95 XP 486 will not exceed 500 microamps.
- Consult local ordinances, the National Fire Protection and UL

codes for specific details on use in a hospital environment.

OPERATING ENVIRONMENT:

Temperature:

- o 10.0 to 35 (degs) C (50 to 95 (degs) F) at 0 -- 914 m (0 3000 ft.)
- o 10 to 32 (degs) C (50 to 90 (degs) F) at 914 -- 2133 m (3000 -- 7000 ft.)

Relative Humidity: 8 to 80%

Maximum Altitude: 2133 m (7000 ft.)

MACHINE REQUIREMENTS: The PS/2 Model 95 XP 486 (9595-0MF, and 0MT) systems require a unique reference diskette identified by a '3" on systems require a unique reference diskette identified by a '3" on the reference diskette label. The PS/2 Model 95 XP 486 (9595-0LF) system requires a unique reference diskette identified by a '2" on system requires a unique reference diskette identified by a '2" on the reference diskette label. These diskettes are not shipped with the systems since the information is preloaded on the system hard file. It is recommended that a backup copy of this information be made by following instructions in the Quick Reference.

The PS/2 Model 95 XP 486 (9595-0LF, 0MF, and 0MT) systems also require an analog display (8504, 8507, 8511, 8512, 8513 8514, 8515, 8516, 8518, 9515, 9517, 9518 or equivalent) and the standard IBM PS/2 XGA-2 Adapter/A for system setup and service. The IBM PS/2 XGA-2 Display Adapter/A, along with the new 95XX IBM color displays, software and the new 9595 systems has been certified to meet the International Organization for Standardization (ISO) standard 9241/3. Refer to Product Announcement 192-228, dated September 21, 1992, for further details.

The PS/2 Model 95 XP 486 System Programs provide a console select utility that allows systems console operations to be performed by an ASCII terminal via the system asynchronous communications port (serial port). If this option is selected, an ASCII terminal must be connected to the serial port at the time of selection.

PROGRAMMING REQUIREMENTS: The following operating systems/extensions support the PS/2 Model 95 XP 486 (9595-0LF, 0MF, and 0MT):

- o Operating System/2 (R) (OS/2 (R)) 2.0 at Service Pak Level 06050
- o OS/2 LAN Server 2.0 Entry and Advanced

- o OS/2 Extended Services 1.0
- o OS/2 Standard Edition 1.30.2 (a)
- o OS/2 Extended Edition 1.30.2 (a)
- o Disk Operating System (DOS) 5.0 (b)
- o AIX (R) PS/2 1.3
- o IBM 4680 Operating System Version 4
- o NetWare (3) v2.2 and v3.11 (when certified by Novell; testing has not been completed at this time).

All of the above operating systems provide support for up to 16MB of memory on the PS/2 Model 95 XP 486. However, OS/2 2.0, AIX PS/2 1.3, SCO (4) UNIX (5) System V/386 Version 3.2v4 and NetWare Versions v2.2 and v3.11 operating systems provide support for greater than 16MB of memory on the PS/2 Model 95 XP 486.

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(a) OS/2 SE 1.30.2 and OS/2 EE Version 1.30.2 are supported in VGA mode only.

(b) DOS 5.0 supports up to seven fixed disk devices and additional SCSI devices (up to a total of 24) in a system.

(3) Registered trademark of Novell, Inc.

(4) Trademark of Santa Cruz Operation, Inc.

(5) Registered trademark of UNIX Systems Laboratories, Inc.

COMPATIBILITY: Refer to the 9595 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.

The IBM PS/2 Model 95 XP 486 contains licensed System Programs that include 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 hard disk drive. The initial machine load (IML) loads the BIOS program from the hard disk drive into system memory. BIOS provides the hardware instructions and interfaces designed to support the standard features of the PS/2 Model 95 XP 486 to maintain compatibility with many software programs currently operating under DOS and OS/2 on the Personal Computer XT (TM), Personal Computer AT (R) and the Personal System/2 family. However, due to the higher

speed of the 486 processor in these new models, some timing sensitive software may require modification.

The IBM PS/2 XGA-2 Display Adapter/A is fully compatible with the XGA Display Adapter/A. Refer to Product Announcement 192-288, dated September 21, 1992, for details. Application modifications may be required depending on the type of monitor attached to the Extended Graphics Array-2 (XGA-2). Refer to Product Announcement 192-288, dated September 21, 1992.

The DOS 5.0 customer can use the fonts designed to meet ISO 9241 Part 3 and DIN 66234 on IBM DOS 5.0 by using the file ISO.CPI provided on the DOS ISO Utility diskette.

DOS 5.0 customers can obtain the DOS ISO compliant fonts and associated README files from an IBM fulfillment house (800-426-7282) for a nominal fee (Bill of Material, shipping and handling charges) or downloading them electronically from PCTOOLS, DOSCSD, NSCBBS and CompuServe.

(TM) Trademark of International Business Machines Corporation.

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LIMITATIONS: The PS/2 Model 95 XP 486 supports a maximum of 64MB of ECC memory. In the xMx models, all 64MB are addressable by direct memory access (DMA). In the xLX model, 16MB are addressable by DMA. PS/2 Model 95 XP 486 9595-0MF and 0MT support 1MB and 2MB 85ns parity memory, 2MB, 4MB and 8MB 80ns parity memory and 4MB and 8MB ECC 70ns ECC and parity memory. The memory SIMMs must be installed in matched pairs. ECC memory or parity memory must be installed in these models. The PS/2 Model 95 XP 486 9595-0LF supports 2MB, 4MB and 8MB parity memory SIMMS (70ns and 80ns only). Mixing ECC and parity memory is not supported. A maximum of two 1GB hard disk drives can be installed in the Model 95 XP 486.

Refer to the PROGRAMMING REQUIREMENTS section for operating systems limitations.

The licensed System Programs include 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 protected partition on the hard 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 following Micro Channel adapters and options are NOT supported by these new IBM PS/2 Model 95 XP 486 systems.

- o IBM Personal System/2 Display Adapter 8514/A (#4054, 1887972)
- o IBM Personal System/2 5.25-inch External Diskette Adapter/A (#8760, 6450245)
- o IBM Personal System/2 80386 Memory Expansion Option 2MB Kit (#3077, 34F3077)
- o IBM Personal System/2 80386 Memory Expansion Option 4MB Kit (#3011, 34F3011)
- o IBM Personal System/2 80386 Memory Expansion Option (#3019, 6450367)
- o IBM Personal System/2 2-8MB 80386 Memory Expansion Option (#5211, 6450605)
- o IBM Personal System/2 5.25-inch 1.2MB Internal Diskette Drive (#1006, 6451006) replaced by 6451066 (which does not require an adapter card)
- o IBM Personal System/2 5.25-inch Diskette Adapter/A (#1007, 6451007)
- o IBM Personal System/2 4869-001 5.25-inch 360KB External Diskette Drive
- o IBM Personal System/2 4869-002 5.25-inch 1.2MB External Diskette Drive
- o IBM Personal System/2 256KB Level 2 Cache Option (#1098, 6451095).

The following PS/2 options are NOT supported by the IBM PS/2 Model 95 XP 486 and installation of these options can adversely affect system performance and reliability:

- o IBM Personal System/2 2nd 1.44MB Diskette Drive (3.5-inch) (#1026, 6451026); supported replacement is #1072, 6451072
- o IBM Personal System/2 CD-ROM Drive (#0845, 6450845); supported replacement is #1113, 6451113
- o IBM Personal System/2 320MB SCSI Fixed Disk Drive (#1055, 6451055); supported replacement is #1108, 6451234.

The following adapters cannot be installed in slot #8 of the PS/2 Model 95 XP 486 systems because of the physical limitations of these adapters:

- o IBM Realtime Interface Co-processor Multiport/2 (#6263, 09F1897 or #6247, 16F1820)
- o IBM Realtime Interface Co-processor Portmaster (R) Adapter/A (#6360, 53F2601; #6364, 53F2604; or #6368, 53F2607).

Display adapter cards that use the Auxiliary Video Extension, such as the IBM PS/2 Image Adapter/A-2, when installed in a PS/2 Model 95 XP 486, require that a display be attached to the Personal System/2 XGA-2 Display Adapter/A during configuration of the system.

High-performance BIOS uses 128KB of system memory, and an additional 256KB is reserved for system use in systems with 16MB or more of memory.

The following limitations apply to the 9595-0LF:

- o The following Micro Channel adapters and options are not supported by the PS/2 Model 95 XP 486 (9595-0LF):
 - IBM Personal System/2 1MB Memory Module Kit-85ns (#5212, 6450603)
 - IBM Personal System/2 2MB Memory Module Kit-85ns (#5213, 6450604).

The models of the 9595 with 16-bit busmasters, for example, the PS/2 Micro Channel SCSI Adapter (#1005, 6451109), that support 32-bits of addressing, will cause system malfunction or potential loss of data when the user installs greater than 16MB of system memory.

High-performance BIOS uses 128KB of system memory, and an additional 256KB is reserved for system use in systems with 16MB or more of memory.

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PLANNING INFORMATION

CUSTOMER RESPONSIBILITIES: The IBM PS/2 Model 95 XP 486 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 initial setup.

INSTALLABILITY: The PS/2 Model 95 XP 486 requires about 15 minutes for installation. Installation includes unpacking, set up and powering on the system. Additional time is required to install other adapters, an operating system and other features.

PACKAGING:

PRODUCT

SHIPMENT GROUP

Personal System/2

Model 95 XP 486

(9595-0LF, 0MF,

or 0MT)

System Unit Carton

Contents:

Quick Reference

XGA-2 Graphics Device

Drivers Diskette

U.S. Line Cord

Keyboard Cable

Keyboard Carton (customer

selection dependent)

IBM Space Saving Keyboard

or

IBM Enhanced Keyboard

or

IBM Host Connect Keyboard

or

IBM Enhanced Keyboard --

French Canadian

or

IBM Space Saving Keyboard --

French Canadian

or

IBM Enhanced Keyboard --

LA Spanish

or

IBM Space Saving Keyboard --

LA Spanish

or

IBM Enhanced Keyboard --

Japanese (xMx models only)

NOTE: Keyboard is shipped in a separate carton.

ACCESSORIES AND/OR SUPPLIES: The 3.5-inch, 4MB diskettes (72X6111) can be purchased from IBM Authorized Supplies Dealers, IBM Authorized Distributors or from IBM Teleservice and Customer Support (TCS).

Call IBM TCS at 800-IBM-2468 (426-2468). Mail orders should be sent to:

IBM Corporation

IBM Teleservice and Customer Support

One Culver Road

Dayton, NJ 08810

SECURITY, AUDITABILITY AND CONTROL

Security and audibility features of this product are:

- o A mechanical lock to allow the user to lock the system cover
- o 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 Unattended Start Mode allows the system keyboard to be locked

to all entries except the password and at the same time allow other computers on the network to access the hard disk.

Small computer system interface (SCSI), as defined in the American National Standard Institute (ANSI) standard X3.131-199X, provides a port for the attachment of external devices. The IBM PS/2 SCSI adapter with cache 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 9595 is included in Category A, Discount Group 1, of the Volume Discount Exhibit -- Workstations and Related I/O (WKS2).

NOTE: The PS/2 Model 95 XP 486 (9595-0LF, 0MF, 0MT) systems are available for commitment attainment only, and are not offered for a discount when purchased under a volume commitment to the Volume Discount Exhibit -- Workstations and Related I/O (WKS2). 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.

WARRANTY PERIOD: Three years. An optional one-year warranty is available via special bid.

WARRANTY 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 9595 is an eligible machine and a qualifying machine under the Volume Maintenance Option* of the ICA.

MID-RANGE SYSTEM OPTION: The 9595 is an eligible machine for the Mid-Range System Option* of the ICA.

ELIGIBLE TYPE	DISCOUNT	
	THREE-YEAR	FIVE-YEAR
9595	17%	22%

CORPORATE SERVICE OPTION: The 9595 is an eligible machine for the Corporate Service Option* of the ICA.

OPTION	DISCOUNT	
	THREE-YEAR	FIVE-YEAR

Network	25%	30%
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System	17%	22%
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EXTENDED MAINTENANCE OPTION: The 9595 is eligible machine for the Extended Maintenance Option* of the ICA.

CENTRAL FACILITY MAINTENANCE SERVICE OPTION: The 9595 is an eligible machine for Central Facility Maintenance Service Option* of the ICA.

A minimum 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: The 9595 is available for ordering through the IBM Education Order Center. Availability through the Education Order Center may not coincide with the product availability dates 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 25% discount from the single unit purchase price, is not subject to any further discount or allowance. The 9595 is included in the National Education Price Exhibit.

CHARGES

DESCRIPTION	MACHINE TYPE	MODEL/	PART NUMBER	PURCHASE PRICE
		FEATURE NUMBER		
System Unit	9595	0LF	95950LF	\$ 6,815

System Unit	9595	0MF	95950MF	12,550
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System Unit	9595	0MT	95950MT	14,015
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ALTERNATIVE AND MAINTENANCE SERVICE CHARGES:

		IBM	CENTRAL FACILITY
		ON-SITE	MAINTENANCE
MACHINE		REPAIR	SERVICE
TYPE	MODEL	(IOR)	(CFMS)
9595	OLF	\$ 925	\$ 879
9595	0MF	1,200	1,140
9595	0MT	1,200	1,140