

IBM PERSONAL SYSTEM/2 AND IBM PERSONAL COMPUTER PRODUCT REFERENCE, VERSION 4.0

September 20, 1988

International Business Machines
National Distribution Division
Workstations Marketing, Department 7W7
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White Plains, New York 10601

The prices stated are for your information
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As of September 20, 1986

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--- KEY ---

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W/D Withdrawn from marketing.

Change bars indicate changes since August 16, 1988.

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SPECIAL PROMOTIONAL OFFERINGS

PERSONAL SYSTEM/2 MODEL 80 PUBLISHING TRIAL PROGRAM

The IBM Personal System/2 (PS/2 (R)) Model 80 Trial Program is designed to encourage customers to purchase IBM 8580s by gaining on-site familiarity with both the PS/2 and publishing application software. The trial period for the program is two months. At the conclusion of the trial period, the customer may purchase the trial products, or return them to IBM. There will be no charge to the customer if the products are returned to IBM. This offering is limited to one trial program per selected customer location. Customers may be selected to participate in this program based on their potential to purchase significant quantities of IBM PS/2 or PS/2 Publishing Systems. This program is available effective June 21, 1988 and will be withdrawn effective December 31, 1988.

See Announcement 388-097 for complete details.

IBM RT CAD/CAM PROMOTIONAL OFFERING

IBM announces, for a limited time, the availability of an IBM RT CAD/CAM Offering for customers who install a systems solution that combines an IBM RT and one or more of CADAM, CATIA, CAEDS, or CIEDS/CBDS. Customers participating in this promotional offering will receive a 25 percent discount on the single unit price of the eligible hardware and a 50 percent discount on the prices of basic education classes for each base application program installed.

This offering applies to systems installed between July 1, 1988, and December 31, 1988.

See Announcement 388-113 for complete details.

IBM PERSONAL COMPUTER TRADE-IN PROMOTION

Beginning July, 1988, IBM will advertise a special trade-in promotion for customers who purchase an IBM Personal System/2

from a participating IBM Authorized Personal Computer Dealer, IBM Authorized Industry Remarketer, and a Campus Technology Center. This offering, available from July 1, 1988 through August 31, 1988, is designed to accelerate replacement of IBM personal computers and provide customers with an incentive to purchase IBM Personal System/2s now.

A trade-in display will only be accepted if it is accompanied by an eligible IBM Personal Computer system unit with an appropriate adapter card.

The following are maximum trade-in values offered by IBM to participating dealers. Dealer values may vary. See Announcement 388-105 for complete details of accepted configurations.

Eligible IBM Personal Computers/Displays

IBM PCjr, PCjr Color Display	\$ 100
IBM PC (5150) 1 diskette model	175
2 diskette model	225
IBM Portable PC (5155)	250
IBM PC XT (5160-068)	275
(5160-078)	300
(5160-087)	350
(5160-267/268)	300
(5160-277/278)	325
(5160-088/089)	425
(5162-286)	650
IBM PC AT (5170-068)	550
(5170-099)	725
(5170-239)	875
(5170-319/339)	1175
IBM Displays (with eligible system unit and adapter)	
5151-001 (monochrome)	40
5153-001 (color)	160

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PERSONAL SYSTEM/2 MODEL 80 TRIAL PROGRAM

The Personal System/2 Model 80 Trial Program allows selected customers to evaluate certain IBM 8580 products. It permits productive use of the products for a period of two months and allows customers to retain the trial products at the end of the trial period. One 8580 System Unit is allowed per trial period, including specified I/O and Software. This offering is limited to one trial period per selected customer location and applies only to the first installation of any IBM 8580 model within that customer location. Reference ivory letter #388-028 for more information.

PERSONAL SYSTEM/2 CLASSROOM NETWORK TRIAL PROGRAM

The Personal System/2 Classroom Network Trial Program allows selected customers to evaluate a network of IBM Personal System/2 products and IBM courseware and tools software at their location. It permits productive use of the products for a period of up to six months and allows the customer to purchase the equipment or return it to IBM at the end of the trial period. This offering is limited to one trial period network per selected customer location and applies only to the first installation of a classroom network within the customer location. Reference ivory letter #388-032 for more information.

VOLUME PROCUREMENT

The following are abstracts from (and paraphrases of) the major quantity-purchasing agreements which apply to the IBM Personal Computer. Important information has been omitted for brevity. See your IBM Marketing Representative for complete details of these agreements.

HARDWARE - VOLUME PROCUREMENT AMENDMENT

1. The terms below are from Exhibit WKS-4, form Z125-3995-4, dated August 4, 1987.

If you have a different agreement in effect, its terms will govern your purchases. Under certain circumstances, you may cancel an existing VPA without penalty in order to accept the terms of the new Amendment. See your IBM Marketing Representative for details.

2. Eligible Machines:

All machines in Category A will be aggregated to determine the Quantity of Eligible Machines for Category A.

-----Category A**-----			
Discount Group:			
1	2	3	4
5140	3179(m1)	3151(m1)	3193
5160(a)	3180(m1)	3161	3194
5162	3191	3162	
5170	3192	3163	
5171	3196	3164	
5271	3197		
5273	3205(m1)		
5373	3278		
8525	3279		
8530	3290(m1)		
8550	8775		
8560			
8570			
8580			

Figure 1. VPA Hardware Category A

** All machines in Discount Groups 1, 2, 3 and 4 will be aggregated to determine the Minimum Quantity of Eligible Machines for Category A.

-----Category B (d) -----		
Discount Group:		
-----1-----	2	
3117	5272	3979(m1)
3118	5277	
3295	5278	
3363	5279	
4055	5378	
4865	5379	
4869(m1)	6157	
5144	8218	
5145	8219	
5151	8228(m1)	
5153(a)	8503	
5154	8507	
5167	8512	
5173(m1)	8513	
51788514		

Figure 2. VPA Hardware Category B

3. Discount Schedule

Minimum Quantity of Eligible Machines by Category	-----Category A-----			
	Discount Group			
	1	2	3	4
Duration (months)				
12	18	24		
6	9	12	0%	6%
20	30	40	12	9
50	75	100	12	12
150	225	300	20	15
250	375	500	27	18
500	750	1000	27	21
750	1125	1500	28	24
1000	1500	2000	30	27
1500	2250	3000	30	30
2250	3375	4500	30	34
3000	4500	6000	30	38

Category B: See Note d Below.

Figure 3. VPA Discount Schedule, Category A

Greater discounts are available for a commitment of 500 or

more selected machines from Category A. Contact your IBM Marketing Representative for additional information.

(m1) Maximum Discounts: The IBM 4869 is not eligible for discounts greater than 27%, the IBM 5173 is not eligible for discounts greater than 15%, the IBM 8228 model 1 is not eligible for discounts greater than 20%, the IBM 3151 is not eligible for discounts greater than 27%, the IBM 3179, 3180, and 3290 are not eligible for discounts greater than 30%, and the IBM 3205 and 3979 are not eligible for discounts greater than 34%. The 8228-KT2 Token-Ring Network Starter Kit and IBM 8228-KT3 Token-Ring Network Starter Kit/A are not eligible for a discount.

(d) Category B is a Dependent Category; Category A is its Controlling Category. All machines in Category B - Discount Groups 1 and 2 will receive the same Discount Percent as machines in Category A - Discount Groups 1 and 2, respectively.

Features ordered for field installation on Eligible Machines in Category A - Discount Group 1 are eligible for a discount provided they are acquired during the Contract Period of a Volume Commitment for Category A. The Discount Percent for such features shall be equal to the machine Discount Percent applicable for Category A - Discount Group 1. Price protection provisions for such features shall be the same as for machines.

Category C	Category D	Category E**	
		Discount Group:	
		1	2
3174	3299(d)	3852	5084
3274		4201	5087
3276		4202	6182
3708(m2)		4207	6184
3710(m2, a)		4208	6186
5208(m2)		4216	
5209(m2)		5169	
5294(m2)		5201	
		5202	
		5216(a)	
		5223	
		6180	
		7372	

Figure 4. VPA Hardware Categories C-E

Category
 E **,***
 (Customer Fulfillment Option Only Machines)
 6715
 6746
 6747
 6750
 6770
 6780
 6901
 6902****
 6903****

Figure 5. VPA Hardware Category E (CFO Only)

Category	Category	Category	Category
F	G	H	I
5085	5081(d) 5083(d) 5088(d)	5531 7531(m2) 7532(m2) 7552	5532(d) 7534(d)

Figure 6. VPA Hardware Categories F-I

** All machines in Category E, Discount Groups 1 and 2, will be aggregated to determine the Minimum Quantity of Eligible Machines in Category E.

*** These machines may only be purchased from an IBM Authorized Dealer.

**** These products are only available by purchasing a Personal System/2 - Personal Typing Offering.

Greater discounts are available for a specific commitment of 30 or more selected machines in Category E - Discount Group 2. Contact your IBM Marketing Representative for additional information.

(a) Orders for the IBM 3710 Network Controller must be received by IBM before September 30, 1987, and acceptance of such orders is subject to availability. Orders for the IBM 5160 System Unit/Keyboard and IBM 5153 Color Display must be received by IBM before June 30, 1987, and acceptance of such orders is subject to availability.

4. Discount Schedule

Minimum Quantity of Eligible Machines by Category			Categories				
Duration (months)				C	E	F	H
	12	18	24	Discount Group			
				1	2		
2	3	4	*	*	*	*	6%
4	6	8	*	0%	6%	5%	6
6	9	12	9%	0	6	5	6
8	12	16	9	0	12	10	6
15	22	30	15	0	12	15	16
20	30	40	15	12	16	15	16
25	37	50	20	12	16	20	16
35	52	70	25	12	16	20	16
50	75	100	25	16	16	20	16
60	90	120	30	16	16	20	16
90	135	180	36	16	16	20	16
120	180	240	40	16	16	20	16
150	225	300	40	20	16	20	20
250	375	500	40	24	16	20	25
500	750	1000	40	27	16	20	27
1000	1500	2000	40	30	16	20	30

Figure 7. VPA Discount Schedule, Categories C-H

* Not applicable to this category

(d) Dependent Categories:

Dependent Category	Controlling Category
D	C
G	F
I	H

Figure 8. Dependent Category Relationships

(m2) Maximum Discounts: The IBM 3710 is not eligible for discounts greater than 15%, the IBM 5209 and 5294 are not eligible for discounts greater than 20%, the IBM 7531 Model 41 and 7532 Model 41 are not eligible for discounts greater than 24%, and the IBM 3708 is not eligible for discounts greater than 36%.

Features ordered for field installation on Eligible Machines in Categories H and I and the IBM 6184 and 6186 in Category E are eligible for a discount provided they are acquired during the Contract Period of a Volume Commitment for Category H or Category E, as applicable. The Discount Percent for such features shall be equal to the machine Discount Percent applicable for the Category of the machine on which the feature will be installed. Price protection

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provisions for such features shall be the same as for machines.

5. CUSTOMER FULFILLMENT OPTION:

OVERVIEW: An IBM customer who has a qualifying contract may select the most convenient, authorized sources for eligible IBM Personal Computers and related products. Purchases from all such sources will count toward fulfillment of the contract, provided that the purchases are reported to IBM in a timely manner. In particular, such purchases under the mix-and-match contracts will assist the customer in qualifying for deeper discounts on their non-PC workstation purchases (e.g., 3270's). IBM support offerings will be available to customers with qualifying contracts regardless of the authorized sources selected for their purchases.

DETAILS: The following machines are designated as eligible for the provisions of the Section entitled "Customer Fulfillment Option" in the Volume Procurement Amendment when purchased from an applicable IBM Authorized Dealer for such machines or IBM Authorized Distributor for such machines, as indicated below by an "X" under the Categories of Designated Machines.

Category	Type	Models
A	3151	
	5140	002, 022
	5160	068, 078, 086, 087, 088, 089, 267, 268, 277, 278
	5162	286
	5170	068, 099, 239, 319, 339
	5171	168, 339
	8525	ALL
	8530	ALL
	8550	ALL
	8560	ALL
	8570	ALL
	8580	ALL

Figure 9. CFO Eligible Machines

Category	Type	Models
B(3)	3117	010
B(3)	3118	010, 020
B	3633	ALL
	4869	ALL
	5144	001
	5145	001
	5151	001
	5153	001
	5154	001
	5167	001
	8503	ALL
	8507	ALL
	8512	ALL
	8513	ALL
	8514	ALL
B(1)	5173	ALL
	5178	ALL
	8228	001, KT2, KT3
B(2)	6157	001

Figure 10. CFO Eligible Machines

Category	Type	Models
E	3852	002
	4201	ALL
	4202	001
	4207	ALL
	4208	ALL
	4216	020
	5169	002
	5201	001, 002
	5202	ALL
	5216	001, 002
	5223	001
E(1)	6715	ALL
	6746	ALL
	6747	ALL
	6750	ALL
	6770	ALL
	6780	ALL
	6901	ALL
	6902	ALL
	6903	ALL

Figure 11. CFO Eligible Machines

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Category	Type	Models
H	5531	ALL
	7531	ALL
	7532	ALL
	7552	ALL
I	5532	ALL
	7534	ALL

Figure 12. CFO Eligible Machines

Applicable IBM Authorized Dealers or IBM Authorized Distributors by Category		A	A(1)	B	B(1)	B(2)	B(3)	E	E(1)	H	I
Notes	Notes:			3	3	3	3				3
1	IBM Authorized Dealer for IBM Personal Computer Products	x		x		x	x	x			
1	IBM Authorized Value Added Dealer for IBM Products	x		x		x	x	x			
1	IBM Authorized Dealer for IBM Selected Products	x		x				x			
2	Authorized IBM Industrial Computer Distributor									x	x
	Industrial Application Remarketer									x	x
1,4	Certified IBM Local Area Network Dealer				x						
	IBM Authorized Dealer for IBM Typewriter Products								x		
	IBM Value Added Remarketers who have the VAR I/O Amendment in effect							x			
	Authorized IBM Remarketers of IBM ASCII Displays or their Remarketers of IBM ASCII Displays				x						

Figure 13. Applicable Dealers

(1) Purchases from such a Dealer's associated reseller who has been approved by IBM also qualify. In the Certification, the Customer will indicate the applicable Dealer for the associated reseller.

(2) Purchases from such a Distributor's qualified systems integrator who has purchased the machines from such Distributor also qualify. In the Certification, the Customer will indicate the applicable Distributor for the qualified

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systems integrator.

(3) Designated machines in Category B, B(1), B(2), and I are to be included in the Certification but are otherwise not subject to the provisions of the Section entitled "Customer Fulfillment Option" in the Volume Procurement Amendment.

(4) A Certified IBM Local Area Network Dealer is an IBM Authorized Dealer that has been certified by the Advanced Dealer Selection Process to sell, install, and support IBM Local Area Network Products.

6. PURCHASE OF INSTALLED MACHINES: For the IBM 3278, 3279, and 8775 in Category A which are purchased under the provisions of the Section entitled "Purchase of Installed Machines" in the Volume Procurement Amendment, the discounted purchase price will not be less than 30% of the purchase price used to determine the net purchase option price under the Agreement for Lease or Rental of IBM Machines.
7. END USER CERTIFICATION: The Section entitled "End User Certification" in the Volume Procurement Amendment does not apply to the IBM 3278, 3279, and 8775 machines in Category A which were installed under the Agreement for Lease or Rental of IBM Machines before January 1, 1985 and are purchased under the provisions of the Section entitled "Purchase of Installed Machines" in the Volume Procurement Amendment.
8. ADJUSTMENT CHARGE FACTORS AND WARRANTY INFORMATION. (For warranty information, see the appendix on Warranty Periods and Options).

Machine Type	Adjustment Charge Factor (\$)
3117	15
3118	20
3151	10
3161	10
3162	10
3163	10
3164	15
3174	120
3179	20
3180	20
3191	15
3192	18
3193	30
3194	30
3196	15
3197	18
3205	30
3274	140
3276	80
3278	25

Machine Type	Adjustment Charge Factor (\$)
3279	25
3290	75
3295	40
3299	10
3363	30
3708	40
3710	250
3852	10
3979	5
4055	50
4201	6
4202	8
4207	8
4208	11
4216	22
4865	4
4869	5
5081	25
5083	6
5084	70
5085	180

Machine Type	Adjustment Charge Factor (\$)
5087	100
5088	75
5140	20
5144	2
5145	4
5151	3
5153	7
5154	9
5160	30
5162	45
5167	8
5169	40
5170	55
5171	75
5173	8
5178	6
5201	15
5202	8
5208	30
5209	60
5216	20

Machine Type	Adjustment Charge Factor (\$)
5223	15
5271	45
5272	10
5273	55
5277	4
5278	35
5279	20
5294	35
5373	55
5378	85
5379	35
5531	45
5532	9
6157	18
6180	20
6184	55
6186	100
7372	20
7531	95
7532	95

Machine Type	Adjustment Charge Factor (\$)
7534	12
7552	115
8218	15
8219	15
8228	7
8503	5
8507	?
8512	10
8513	10
8514	20
8525	20
8530	25
8550	40
8560	65
8580	90
8775	40

HARDWARE - ORDERING

System units, displays, printers, and some other items carry 7-digit type and model numbers. For example, one of the PC system units has the number "5150-104." Ordering a "5150-104" would result in the shipment of that model of PC system unit.

Attachments, adapters, cables, and similar items carry 4-digit feature codes. These items are often called features. For example, the standard parallel printer cable has the feature code "5612." Feature codes are always paired with an ordering vehicle (type and model number) in an order.

When you order a feature at the same time as the device it will be installed within (or attached to), the feature code is paired with the type and model of that device; the device becomes the ordering vehicle for the feature. For example, if you order "5150-104" with feature code "5612," IBM will ship a PC system unit and a printer cable.

When you order a feature separately, the feature code is paired with a special type and model called a "special" ordering vehicle. A special ordering vehicle is a type and model number created solely for the purpose of providing a base for ordering feature codes. All PC special ordering vehicles end in "-ZZZ," for example, "5150-ZZZ." For example, if you order "5150-ZZZ" with feature code "5612," IBM will ship a printer cable by itself.

Usually there is only one special ordering vehicle for a given feature code. When there is more than one, care must be used. For example, feature code "4910" can be ordered on either "5150-ZZZ" (IBM will ship a PC Color Graphics Monitor Adapter), or on "5271-ZZZ" (IBM will ship a 3270-PC All-Points Address-

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able Adapter).

This Reference can be formatted to provide a cross reference which gives the ordering vehicles valid for each feature code. This cross reference, if specified, will be found at the beginning of the index.

When no special ordering vehicle exists for the feature you wish to add, IBM will need the type and model of the base unit, the serial number of the base unit, and the feature code you wish to add. Specify that your order is a "Miscellaneous Equipment Specification" (MES).

SINGLE SHIPMENT VOLUME OFFERING (TOKEN-RING NETWORK)

A single-shipment volume offering is available for the IBM Token-Ring Network PC Adapter Feature.

This offering applies to quantities contained in one customer order that are shipped in a single shipment to a single location, where the customer accepts delivery of all features. The offering may not be combined with any other discounts or allowances.

Customers will be able to order these features at reduced prices in quantities of 8 or 20.

Returns of adapter features ordered under this offering will only be considered for credit if they are returned in the same quantities as ordered.

Features purchased under this offering are intended for use within the customer's own business enterprise and not for re-marketing.

Charges	Part Number	Feature Code	SSVO Price
IBM Token-Ring Network PC Adapter			
Quantity of 8	6339100	0370	\$ 4,726
Quantity of 20	6339100	0371	11,398

Figure 14. Single Shipment Volume Offering Pricing

SOFTWARE - VOLUME PROCUREMENT AMENDMENT

The terms below are from Exhibit PCLP-1, form Z125-4015-01, dated June 16, 1987.

If you have a different agreement in effect, its terms will govern your purchases. Under certain circumstances, you may

Volume Procurement

cancel an existing QEA without penalty in order to accept the terms of the new Agreement. See your IBM Marketing Representative for details.

1. ELIGIBLE PROGRAMS: Eligible Programs are specified in IBM's then generally available Eligible Program List(s) and may be Programs or Upgrades, Documentation, or Additional Licenses of such Programs, as identified in such List. Some Eligible Programs are Non-IBM Programs and are so indicated in the Eligible Program List. Additions to the Eligible Program List are also eligible hereunder if specified by IBM prior to their inclusion in such List.

Category	Eligible Programs
A	Personal Computer/System Programs
B(d)	Personal Computer/System Upgrades and Documentation
C	CAD/CAM Programs
D	CAD/CAM Programs
E(d)	CAD/CAM Programs
F	Industrial Computer Programs
G	RT Personal Computer Programs

2. Discount Schedule:

Duration (months)	Minimum Quantity of Eligible Programs by Category							
	Categories							
	12	18	24	A	C	D	F	G
4	6	8	*	*	5%	*	10%	
6	9	12	*	15%	5	*	10	
10	15	20	*	25	10	*	15	
20	30	40	12%	25	15	*	21	
25	38	50	12	30	15	12%	21	
30	45	60	12	30	20	12	26	
50	75	100	16	35		12	35	
100	150	200	16			16	37	
150	225	300	20			16	38	
250	375	500	24			20		
500	750	1000	27			24		
1000	1500	2000	30			27		
1500	2250	3000	35++			30		

* Not applicable to this Category

++ The 35% Discount Percent applies only to certain Eligible Programs as indicated in the Eligible Program List. Software in the following categories receives a 35% discount.

5871-BBB
 5871-CON
 5872-BBB
 5872-CON
 5873-AAA
 5873-BBB
 5874-BBB
 5876-BBB

Figure 15. 35% Discount Categories

(d) Dependent Categories

Dependent Category	Controlling Category
B	A
E	D

3. ADDITIONAL LICENSES: For Eligible Licensed Programs identified in an Eligible Program List as Programs for which Additional Licenses are available (AL Programs), in lieu of distribution from IBM, the Customer is permitted to copy machine readable program materials. Prior to ordering an Additional License for an AL Program, the Customer must be licensed to use the AL Program and have acquired at least one program package for each such AL Program. A "program package" includes the media on which the machine readable program materials are recorded, documentation, and other associated materials.

For each Additional License ordered, providing the order is accepted by IBM, the Customer is authorized to make a single additional copy of the machine-readable program materials of an AL Program (Additional License Copy). Additional License Copies are licensed under the IBM Program License Agreement included in the VPA, as modified by this section.

An Additional License Copy may be a copy:

- downloaded to a machine,
- recorded on portable media,
- made by any other electronic means.

Documentation in printed form may not be copied.

Ordering

Additional Licenses for AL Programs may be ordered by the Customer under the VPA. Orders for Additional Licenses will be accepted only for quantities of 20 or more per Program in Category A, or 4 or more per Program in Category G.

No copies may be transferred to third parties. Labeling,

auditability, and control requirements also exist. See the full text of the Agreement for details.

THE FOLLOWING SECTION APPLIES ONLY TO THE PROGRAMS HAVING IBM SUPPORT CENTER SERVICE AVAILABLE.

4. TECHNICAL SUPPORT LOCATION/IBM SUPPORT CENTER SERVICE: The customer will identify to IBM a Technical Support Location in the United States or Puerto Rico. The Technical Support Location may register several Service Coordinators for eligibility to obtain IBM Support Center Service. Updates will be provided through object code refreshes. See "Technical Coordinator Program" on page 143.

THE FOLLOWING SECTION APPLIES ONLY TO ELIGIBLE PROGRAMS INDICATED AS HAVING A TESTING PERIOD AVAILABLE.

5. TESTING PERIOD: For each Eligible Licensed Program having a Testing Period available, the Customer may order up to three copies of each such program for a testing period (evaluation copies). The testing period will commence ten days after shipment of the program from IBM and end two months thereafter or at the end of the Contract Period of a Volume Commitment for the Category containing such Program, whichever occurs first. At the end of the testing period, the Customer may elect to keep the evaluation copies and be billed by IBM, or the customer may elect to return the evaluation copies to IBM or destroy all evaluation copies of such program. The evaluation copies may not be transferred to any other party during the testing period. Unless notice of discontinuance is given, the Customer will be deemed, at the end of the testing period, to have retained the Eligible Program under the terms and conditions of the VPA and of the PLA included therein. Any such Program which is retained by the Customer will count toward the Total Quantity of Products by Category.

A testing period is available for all Programs in Category A except for Additional Licenses and Non-IBM Programs.

A testing period is available for all Programs in Category G except for Additional Licenses and Non-IBM Programs.

SOFTWARE - ORDERING

Program categories are indicated in the product list by a letter which follows the four-digit feature code at the beginning of each entry. All programs of a given category assort together for determining the quantity discount that applies.

This Reference can be formatted to provide a cross reference which gives the ordering vehicles valid for each feature code. This cross reference, if specified, will be found at the beginning of the index.

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Category	Type/Model
A	5871-AAA, 5872-AAA, 5873-AAA, 5874-AAA, 5876-AAA
B	5871-BBB, 5872-BBB, 5873-BBB, 5874-BBB, 5876-BBB

Figure 16. QDA Ordering Vehicles

The categories below were used by earlier agreements. They are reproduced here for reference.

Category	Type/Model
L	5870-LLL or 5870-LLA
M	5875-MMM or 5875-MMA

Figure 17. QDA Ordering Vehicles (Old)

The above information applies to existing Quantity Discount Agreements. Certain previous agreements required ordering all software on an ordering vehicle number created by adding "-XXX" to the type (first four digits) of the system unit, e.g. "5150-XXX."

Software which is not covered under the Quantity Discount Agreement and which bears no other ordering vehicle is ordered under 5875-XXX.

REDISTRIBUTION OF PC SOFTWARE

The IBM PC Program License Agreement permits the customer to execute a given program on only a single machine at a time, and applies to all PC software marketed by IBM.

The customer may wish to redistribute certain IBM program modules as part of applications the customer has developed. IBM provides two Agreements which make this redistribution possible:

- The IBM PC Licensed Program Redistribution Agreement (Z125-3519, for redistribution to end users unaffiliated with the distributor)
- The Amendment to the IBM Program License Agreement (Customer Redistribution) (Z125-3527, for redistribution within the distributor's organization)

If the customer's requirements are such that it is necessary to redistribute to both affiliated and unaffiliated end users, both agreements must be completed. The charges for redistribution to either category of users are the same, and there is no additional charge to redistribute to both environments.

The current cost of this service is a one-time charge of \$100 for registration as a Licensed Redistributor, in addition to the fee listed in the Exhibit for each application (not each copy of each application) containing IBM programs to be redistributed. The maximum total payment for applications used only within the internal organization of the customer is \$1000.

1) One Time Charge: \$100

2) Application Charges:

IBM Program Name	Item No.	Application Charge
BASRUN.EXE	6135997	\$ 50
BASRUN20.EXE		
ISAM.EXE		
REBUILD.EXE		
COBRUN.EXE	6277763	50
PCSORT.EXE	6277783	700
REBUILD.EXE		
ADM.COM	6277784	100
INIT_VDI.EXE	6277785	500
(This Application Charge also includes all program files beginning with the letters VDI and ending with the letters .SYS that run with the VDI Controller Module VDI.SYS)		
Graphics Development Toolkit V.1.1	6280076	800

Figure 18. Redistribution Charges

The completed forms are to be mailed to IBM at P.O. Box 1328, Department 5W4/236-2, Boca Raton, FL 33429.

The above terms and conditions apply only to redistribution within the United States and Puerto Rico. Other agreements apply outside that area.

MAINTENANCE - VOLUME MAINTENANCE AMENDMENT

The Volume Maintenance Amendment is available to customers who own the covered machines, or who are the primary users of the machines and who are authorized by the owner to include them under the amendment.

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During the first year that machines are under the Amendment, the discount percentage will be based upon the total quantity of Qualifying Machines the customer commits will be under the Amendment at the end of the first year. The total quantity may also include those under warranty if the customer commits to include them under the Amendment immediately following the expiration of the warranty.

If, at the end of the first year, IBM determines that the total quantity of Qualifying Machines under the Amendment and under warranty is less than the committed quantity, IBM will bill the customer for any unearned discount.

The discount percentage used during the second year will be the percentage actually earned during the first year, including those committed machines on warranty at the end of the first year.

The discount percentage used in subsequent years will be based on the number of Qualifying Machines actually under the Amendment (not under warranty) at the end of the prior year.

The customer may increase the committed quantity during the first year, and may place additional machines under the Agreement at any time. If the new quantity results in a higher discount, the new discount will apply to machines placed under the amendment on or after the date that IBM issues a revised Supplement indicating the new confirmed quantity.

Only one type of service may be specified under an Amendment for any given machine type invoiced under a specific Customer Number.

Qualifying Machines

The quantity of machines of these types committed to or under the Amendment determines your Discount.

4860	5162	8525
4950	5170*	8530
5140	5171T	8550
5150	5271	8560
5155	5273	8570
5160	5371	8580
	5373	

* When Customer Carry-In Repair is selected for this Machine Type, it is not subject to the Volume Maintenance Amendment and therefore is not included in the Quantity of Qualifying Machines.

Figure 19. VMA Qualifying Machines

Discount Schedule

Quantity of Qualifying Machines	Minimum Quantity	Discount Percent
150-499	150	15%
500-999	500	20%
1000 and up	1000	25%

Figure 20. VMA Discount Levels

Eligible Machines

Maintenance for these machines may be discounted by the percentage determined above.

3852 Color Printer	5181 Compact Printer
4055 InfoWindow Display	5201 Quietwriter**
4201 Proprinter	5216 Wheelprinter
4202 Proprinter XL	5223 Wheelprinter E
4207 Proprinter X24	5272 Color Display
4208 Proprinter XL24	6180 Color Plotter
4216 Pers. Pageprinter	8503 Mono Display
	8507 Mono Display
4863 PCjr Display	8512 Color Display
4865 3.5in Dette Drive	8513 Color Display
4869 Diskette Drive	8514 Color Display
4971 Printer	1537 Hayes Transet
5144 Conv Mono Display	1538 HP Plotters
5145 Conv Color Display	1543 HP Thinkjet Printer
5151 Mono Display	1551 Epson Printers
5152 Printer	1552 Okidata Printers
5153 Color Display	1556 Amdek Mono Display
5154 Enhanced Display	1560 Tecmar Tape Backup
5161 Expansion Unit	1561 Tecmar Tape Backup
5167 Mono Display T	1575 Hayes Smartmodem
5169 Quietwriter T	1580 Amdek 300 Monitors
5173 PCNetwork Expander	
5175 Pro. Display	
5178 Translator Unit	

** When Customer Carry-In Repair is selected for this Machine Type, it is not subject to the Volume Maintenance Amendment.

Figure 21. VMA Eligible Machines

MAINTENANCE - CORPORATE SERVICE AMENDMENT

The Corporate Service Amendment (CSA) to the IBM Maintenance Agreement provides for adjustment of maintenance charges on or after January 1, 1987, for customers who have data processing systems or networks and can demonstrate effective systems man-

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agement control procedures, as defined by IBM, and determined by a detailed on-site assessment.

The Corporate Service Amendment has two options, a System Option for machine types installed in the customer's data center environment and a Network Option for machine types capable of attachment to a customer's telecommunications network.

The Electronic Customer Communications Option (ECCO) is a required function within the Network Option. ECCO is an IBM Personal Computer-based communications link with IBM. ECCO will allow customers who manage network service requirements from a central help desk to communicate with IBM regarding service via

telecommunications link. Using a customer-supplied PC with dial-up capabilities, the help desk will be able to request IBM service and to receive status updates on active IBM service calls.

Customers may obtain this offering, for eligible machines, following a qualification determination and payment of an initialization charge. The maintenance charge adjustment is established by machine type and is dependent upon the length of term selected by the customer, either one, three, or five years.

For more information, see your IBM Marketing Representative.

IBM SOLUTIONPAC OFFERINGS

IBM SOLUTIONPAC - LOCAL AREA NETWORK IMPLEMENTATION SERVICES

The LAN Implementation Services offerings assure logical design and provide physical network design, network product installation, end-user network orientation, and telephone assistance to the customer installing an IBM Token-Ring Network or an IBM PC Network.

LAN IMPLEMENTATION SERVICES I

LAN Implementation Services I assumes a simple environment with no wiring closets, wiring panels, or distribution racks. The LAN interconnection is accomplished through one or more 8228 Multistation Access Units for Token-Ring Networks. IBM Patch Cables or equivalents are used as the cabling system. For the IBM PC Network the IBM PC Network Cabling Kit (which includes the IBM 5178 PC Network Translator Unit) is the interconnection method. Neither bridging nor gateways are acceptable in the LAN Implementation Services definition of a simple environment.

IBM will review and document the logical design of the network as provided by the customer. IBM will provide a network physical design, including a written report outlining the physical requirements for the installation. IBM will install IBM Personal Computer workstations, selected workstation features and LAN software under this agreement.

IBM will install, configure, and test the IBM Token-Ring or IBM PC Network software on each network station, excluding applications software.

Local area network end-user orientation and customer telephone assistance for a period of 60 days are also included.

LAN IMPLEMENTATION SERVICES II AND IIA

LAN Implementation Services II and IIA assume a more complex environment where wiring closets, wiring panels, distribution racks, and/or 8228s are required. LAN Implementation Services II and IIA support multi-ring bridges and the presence of

gateways.

Version IIA is for customers who already have the IBM Cabling System installed.

IBM will review and document the logical design of the network as provided by the customer. IBM will provide a network physical design, including a specification of work for installation of installation of the IBM Cabling System to be installed by the customer.

LAN IMPLEMENTATION SERVICES III

LAN Implementation Services III assumes that LAN Implementation Services II or IIA criteria have been satisfied.

IBM will install IBM Personal Computer workstations, selected workstation features and LAN software under this agreement.

IBM will install, configure, and test the IBM Token-Ring or IBM PC Network software on each network station, excluding applications software.

Local area network end-user orientation and customer telephone assistance for a period of 60 days are also included.

CHARGES

LIS-I	LAN Implementation Services I - Base Fee	1500
LIS-I	LAN Implementation Services I - Fee per Workstation	150
LIS-II	LAN Implementation Services II - Base Fee (inc. up to 100 drops)	9000
LIS-II	LAN Implementation Services II - Fee per 50 additional drops	500
LIS-IIa	LAN Implementation Services IIA - Base Fee (inc. up to 100 drops)	3500
LIS-IIa	LAN Implementation Services IIA - Fee per 50 additional drops	500

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LIS-III	LAN Implementation Services III - Base Fee	1000
LIS-III	LAN Implementation Services III - Fee per Workstation	170

IBM SOLUTIONPAC - PERSONAL PUBLISHING

The IBM SolutionPac Personal Publishing System and Personal Publishing Option enhance the IBM PC family by providing the facilities to electronically design and layout documents, which contain text in a variety of type styles and graphics, for the application commonly known as "Desktop Publishing." Ninety days of end user usage and defect support is included.

The IBM SolutionPac Personal Publishing System includes:

- IBM Personal System/2 Model 30 (8530)
- IBM Personal System/2 Display (8503 or 8513)
- IBM Personal System/2 Mouse (FC 8770)
- IBM Personal Pageprinter (4216)
- IBM Personal Pageprinter Adapter
- IBM Personal Pageprinter Adapter Program
- IBM and Vendor environment/application software

| The IBM SolutionPac Personal Publishing Option upgrades an existing 8525 or 8530 and includes:

- IBM Personal Pageprinter (4216-020)
- IBM Personal Pageprinter Adapter (#7001)
- IBM Personal Pageprinter Adapter Program (#8968, 07F4349)
- IBM and Vendor environment/application software

| The IBM and Vendor software referred to above includes:

- support for the full PostScript language
- Microsoft Windows/286 V.2.1 (#9818)
- Aldus Pagemaker V.3.0 (#9816)

| The IBM SolutionPac Personal Publishing Option upgrades an existing 5162 or 5170 (Models 99, 239, 319 and 339) and includes:

- IBM Personal Pageprinter (4216-020)
- IBM Personal Pageprinter Adapter (#7001)
- IBM Personal Pageprinter Adapter Program (#8969, 07F4350)
- IBM and Vendor environment/application software

| The IBM and Vendor software referred to above includes:

- support for the full PostScript language
- Microsoft Windows/286 V.2.1 (#9817)
- Aldus Pagemaker V.3.0 (#9816)

IBM SolutionPac, Personal Publishing System, with 8530 and Monochrome Display	8653
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IBM SolutionPac Offerings

IBM SolutionPac, Personal Publishing System, with 8530 and Color Display	9088
IBM SolutionPac, Personal Publishing Option, to upgrade 8525 or 8530	6088
IBM SolutionPac, Personal Publishing Option, to upgrade 5162 or 5170 Models 99, 239, 319 or 339)	6088
Installation fee, SolutionPac Personal Publishing System	290
Installation fee, SolutionPac Personal Publishing Option	335

IBM SOLUTIONPAC - PERSONAL PUBLISHING OPTION/A

The IBM SolutionPac Personal Publishing Option/A enhance the IBM PC family by providing the facilities to electronically design and layout documents, which contain text in a variety of type styles and graphics, for the application commonly known as "Desktop Publishing." Ninety days of end user usage and defect support is included.

| The IBM SolutionPac Personal Publishing Option/A upgrades an existing 8550, 8560, 8570 or 8580 and includes:

- IBM Personal Pageprinter (4216-020)
- IBM Personal Pageprinter Adapter/A (#7002)
- IBM Personal System/2 Mouse (#8770)
- IBM Personal Pageprinter Adapter Program (#0854)
- IBM and Vendor environment/application software

| The IBM and Vendor software referred to above includes:

- support for the full PostScript language
- Microsoft Windows/286 V.2.1 (#9818)
- Aldus Pagemaker V.3.0 (#9816)

IBM SolutionPac, Personal Publishing Option/A, to upgrade 8550, 8560, 8570 or 8580.	6187
Installation fee, SolutionPac Personal Publishing Option/A	335

IBM SOLUTIONPAC - BRANCH BANKING AUTOMATION

IBM has customizing services for selected Branch Banking Automation software. IBM Information Services - Professional Services will provide fee offerings to help customers plan, design, customize, and implement the following Personal Computer-based products:

- BANCStar 4700 Series
- Branchbanker 4700
- Safe Deposit 4700

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- Currency Control 4700
- Loan Loss Control 4700

Customers can select from a list of service offerings that best fit their implementation requirements.

The fee offerings include:

Finance Software Planning

This is a fixed-price consulting service, performed on the customer's premises, that will produce a project plan which identifies the tasks required to install the customer's selected software. As part of the offering, the customer will receive an application customizing guide and instructions to assist in identifying unique application requirements.

Finance Software Design

This is a fixed-price consulting service, performed on the customer's premises using Joint Application Design techniques to complete the application mark-up document.

Finance Software Customizing

Customizing the software products is performed by a Finance Industry Customer Support Team located at an IBM facility in Charlotte, North Carolina for a fixed price. The customizing service results in either machine-readable or source code, and appropriate documentation.

Customizing is limited to the use of standard customizing facilities available in each product. If further customizing is required, IBM can propose modification services through the use of exits provided by the product.

Finance Software Implementation Assistance

Services are available for those customers needing implementation assistance for the customized software.

IBM SOLUTIONPAC - STORE INSTALLATION SERVICES

IBM Store Installation Services consist of six individual service offerings for retail stores customers. These services are designed to assist customers to easily install IBM Point-of-Sale systems and IBM In-Store processors in their stores by selecting the service offering(s) from IBM that match their needs.

The 4680-related offerings are:

IBM SolutionPac Offerings

4680 INSTALLATION PLANNING

IBM will provide a unique, tailored installation package including loop wiring and addressing information.

IBM 4680 INSTALLATION (PILOT STORES)

IBM will unpack, assemble, and connect to existing wiring, customize (by entering the provided parameters), load application code, and test the IBM 4680 system at the customer's pilot location(s).

IBM 4680 APPLICATION INSTALLATION AND CUSTOMIZATION

IBM will install the IBM 4680 operating system and the General Sales Application, the Grocery Sales Application, or the Drug Sales Application on the customer's IBM 4680 system. IBM will customize (by entering the provided parameters) the application and system software.

Other services, not outlined below in "Charges," are also available.

CHARGES

4680 Installation Planning, per store location	650
4680 Installation for the first 5170 store controller, the first 4683, and the first 3687, plus software	650
Installation for each additional 5170 store controller, installed at the same location at the same time	175
Installation for each additional 4683, installed at the same location at the same time	115
Installation for each additional 3687, installed at the same location at the same time	60
Installation for each 5153, installed at the same location at the same time	60
Installation for each 5178, installed at the same location at the same time	60
4680 Application Software Installation and Customization for each store installation	4750

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IBM SOLUTIONPAC - CONSTRUCTION INDUSTRY SERIES

The IBM SolutionPac - Construction Industry Series offerings each provide a combination of (1) accounting and information handling licensed programs for a specific construction environment, (2) installation and education services, and (3) end user support. These SolutionPacs can assist construction firms requiring financial information on a real-time basis and desiring specialized reports and inquiries with the option to add other accounting applications and networking. The support services in these offerings include installation of the SolutionPac software, education on the use of the SolutionPac, and technical support through a response line for 90 days.

This SolutionPac is a service of selected IBM Authorized PC Dealers and Value Added Dealers, and is based on a series of Timberline Software products.

IBM SOLUTIONPAC - BUSINESS ADVISER FINANCIAL ACCOUNTING

The IBM SolutionPac - Business Adviser Financial Accounting offerings each provide a combination of (1) financial accounting and information handling licensed programs, (2) installation and education services, and (3) end user support. These SolutionPacs can assist small businesses requiring financial information on a real-time basis and desiring specialized reports and inquiries with the options to add other accounting applications and networking. The support services in these offerings include installation of the SolutionPac software, education on the use of the SolutionPac, and IBM support through an 800 number for 90 days.

This SolutionPac is a service of selected IBM Authorized PC Dealers and Value Added Dealers, and is based on IBM Business Adviser software.

IBM SOLUTIONPAC - DOCTOR'S OFFICE MANAGEMENT

IBM SolutionPac - Doctor's Office Management provides packaged software and services to the medical professional. The applications are designed to meet the need of the professional in handling office functions such as billing, insurance, accounts receivable, patient-record keeping, and appointment scheduling. This SolutionPac also includes program installation, end user education, and technical support through an 800 number for 90 days.

This SolutionPac is a service of selected IBM Authorized PC Dealers and Value Added Dealers, and is based on IBM Doctor's Office Management software.

IBM SOLUTIONPAC - CADWRITE DESIGN AND DRAFTING SYSTEM

IBM SolutionPac - Cadwrite Design and Drafting System is a two-dimensional drafting system with isometric capability targeted for the single workstation personal computer. The SolutionPac includes Cadwrite and PC DOS. This SolutionPac also includes program installation, education on use of the SolutionPac, and IBM support through an 800 number for 90 days.

This SolutionPac is a service of selected IBM Authorized PC Dealers and Value Added Dealers, and is based on Cadwrite Design and Drafting System software.

IBM SOLUTIONPAC - LEGAL PROFESSION SERIES

The IBM SolutionPac - Legal Profession Series provides application support to improve productivity in the legal environment. Each configuration includes Manac-Omnilaw as a prerequisite and at least one additional application module from IBM or Manac. The Lawyer's Assistant configuration includes a prepackaged set of Assistant Series modules, and the Law Firm Secretarial configuration includes IBM Displaywrite/4, IBM Displaywrite Legal Support, and IBM Index Support. All other modules are provided by Manac. The support services in this offering include installation of the SolutionPac software, education on use of the SolutionPac, and IBM support through an 800 number for 90 days.

This SolutionPac is a service of selected IBM Authorized PC Dealers and Value Added Dealers.

IBM SOLUTIONPAC - PERSONAL TYPING

The IBM SolutionPac Personal Typing, a secretarial application package, integrates the functions of a word processor and a typewriter for attachment with the IBM Personal System/2 Model 30. The SolutionPac includes complete application and system software on one diskette, an impact or non-impact correcting printer and attachment cable, special key caps for the keyboard, and documentation and installation on the customer's Model 30. Also included is customer education and 90 days of software support via an 800 number. The function includes key-to-print and correction modes which eliminate the need to maintain a typewriter in addition to a word processor/personal computer.

6902101 IBM SolutionPac Personal Typing with IBM Correcting WheelWriter (incl. software, documentation, printer, cable, installation, customer supplies PS/2 Model 30)

1575

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6903101 IBM SolutionPac Personal Typing with
IBM Correcting QuietWriter (incl.
software, documentation, printer,
cable, installation, customer supplies
PS/2 Model 30) 1975

IBM SOLUTIONPAC - WRITING TO READ CENTER

The IBM SolutionPac Writing to Read Center is an IBM computer-based instructional center for schools. It is based on the well-known and proven Writing to Read program developed for IBM

by Dr. John Henry Martin. It is designed to develop reading and writing skills of kindergarten and first-grade students. The SolutionPac includes the necessary hardware, software, instructional materials, and support services to implement a complete center. The support services in this offering include education, installation assistance, and IBM application software support through a toll-free 800 number.

The purchase price of this SolutionPac is \$23,514 (used for reference purposes only) which includes equipment and software designed to accommodate five classes per day with 24 students per class. Reference ivory letter #288-329 for more information.

COOPERATIVE SOFTWARE PROGRAM

IBM has been authorized by certain Vendors to present sales materials and take orders for their computer programs (Non-IBM Programs).

Sales materials, including marketing brochures, literature, and price lists relating to such Programs have been supplied to IBM by the Vendor who is responsible for their contents. IBM makes no warranty as to the claims or statements contained in such Vendor marketing materials, and such claims and statements are the responsibility of the Vendor.

Warranties, if any, are limited to those made by the Vendor. WITH RESPECT TO NON-IBM PROGRAMS, IBM MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The Vendor is responsible for licensing, terms and conditions, prices, distribution, invoicing the Customer, and accounts receivable. Either the Vendor or the Customer is responsible for installation, customer education, support, and maintenance depending on the agreement between them.

5758-IIA	DxTER Clinical Simulator System, Abdominal Stab Wounds	1695
5758-IIB	DxTER Clinical Simulator System, Chest Trauma	1695
5758-IIC	DxTER Clinical Simulator System, Patient with Diarrhea and Vomiting	1695
5758-IID	DxTER Clinical Simulator System, Motor Vehicle Trauma	1695
5758-IIE	DxTER Clinical Simulator System, Diagnostic Decisions in Shock	1695
5758-IIF	DxTER Clinical Simulator System, Shotgun Wound to the Abdomen	1695
5758-IIG	DxTER Clinical Simulator System, Initial Assessment of Respiratory Difficulties	1695
5758-IIH	DxTER Clinical Simulator System, Discontinuing Mechanical Ventilation	1695

5758-IIK	DxTER Clinical Simulator System, Pathophysiology of Shock / Pathophysiology of Cardiac Tamponade	1695
5758-IIL	DxTER Clinical Simulator System, Antishock Trousers / Central Venous Pressure	1695
5758-IIM	DxTER Clinical Simulator System, Chest Tubes / Chest Auscultation	1695
5758-IIN	DxTER Clinical Simulator System, I V Solutions / I V Therapy	1695
5758-KYA	Project Vision (Grade 1, 2 teaching numeration and computation, 'Mathematics Essential Skills Numeration and Computation')	1995
5758-WLA	The Versatile Organization (five InfoWindow videodisk modules for productivity improvement in sales, management, and administration) - Base Module	30000
5758-WLB	The Versatile Organization - Selling	15000
5758-WLC	The Versatile Organization - Managing	15000
5758-WLD	The Versatile Organization - Administering	15000
5758-WLE	Management Skill Development (ten InfoWindow videodisk modules providing management development) - Series	40000
5758-WLF	Management Skill Development - Perception	4000
5758-WLG	Management Skill Development - Organizing and Planning	4000
5758-WLH	Management Skill Development - Decision Making	4000
5758-WLI	Management Skill Development - Decisiveness	4000
5758-WLJ	Management Skill Development - Interpersonal Relations	4000
5758-WLK	Management Skill Development - Leadership	4000

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5758-WLL	Management Skill Development - Control and Follow-up	4000	5758-SEB	REAPmate (Reliability Effectiveness Analysis Program) (5.25in)	3850
5758-WLM	Management Skill Development - Flexibility	4000	5758-ADA	PC Workbench	8000
5758-WLN	Management Skill Development - Oral Communication	4000	5758-MSA	HSPICE (RT PC)	8000
5758-WLO	Management Skill Development - Written Communication	4000	5758-GRD	HIL0-3 Universal Logic Simulation System (RT PC)	23000
5758-ESA	ESC Integrated Learning System (Base 1-8)	32000	5758-EIA	Touchstone (3.5in)	9900
5758-ES1	ESC Integrated Learning System (Expanded 9-12)	4000	5758-EIB	Touchstone (5.25in)	9900
5758-ES2	ESC Integrated Learning System (Expanded 13-16)	2400	5758-EIA	Requirements Verification Tool Set (RVTS) (3.5in)	2250
5758-ES3	ESC Integrated Learning System (Expanded 17-20)	6600	5758-EIB	Requirements Verification Tool Set (RVTS) (5.25in)	2250
5758-ES4	ESC Integrated Learning System (Expanded 21-24)	7600	9080	PC ARC/INFO Starter Kit	2500
5758-ES5	ESC Integrated Learning System (Expanded 25-28)	5600	9080	PC GRIDCONVERSION	1000
5758-ES6	ESC Integrated Learning System (Expanded 29-32)	6600	9080	PC OVERLAY	2000
5758-LMA	LaserMaker	2850	9080	PC ARCPLOT	1000
9080	CRISP Base System (Single System)	25000	9080	PC ARCEDIT	1000
9080	CRISP Base System (2 through 10 Systems)	7500	9080	PC NETWORK	2000
9080	CRISP Base System (11 through 20 Systems)	5000	9080	PC INFO	1200
9080	CRISP Base System (More than 20 Systems)	2500	9080	SKILLPAC (5.25in)	5000
9080	CRISP Base System (Location License)	75000	9080	SKILLPAC (3.5in)	5000
9080	CRISP Base System (Bank License)	15000	Calendar; Notes and Messages; Mail and'		
9080	CRISP Product Profitability	15000	Calendar; Notes and Messages; Mail and'		
9080	CRISP Risk Analysis	20000	Calendar; Notes and Messages; Mail and'		
5758-SEA	REAPmate (Reliability Effectiveness Analysis Program) (3.5in)	3850	9080	Using PROFS: Overview Documents	6000
			9080	Using DisplayWrite/370	4000
			9080	Using DisplayWrite/370-PROFS Version	4000
			9080	Project Management Concepts and Principles	2750
			9080	Managing Projects with AS	2750
			9080	Using AS for Inquiry and Reporting	2750

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MODEL/FC VPA DESCRIPTION PRICE

PROCESSORS - PERSONAL SYSTEM/2 (MICROCHANNEL MODELS)

Personal System/2 system units are not compatible with standard PC, PC/XT, or PC/AT adapters.

Personal System/2 system units require a Personal System/2 analog display.

8550-021 a Personal System/2 Model 50 (1MB) w/ 10MHz 80286 CPU, Enhanced Keyboard, Keylock, Clock/Calendar, 3.5in 1.44MB Diskette, 20MB Fixed Disk, and integrated display, DASD, serial/parallel, pointing device adapter 3595

8550-031 a Personal System/2 Model 50 Z (1MB) w/ 10MHz 80286 CPU, Enhanced Keyboard, Keylock, Clock/Calendar, 3.5in 1.44MB Dskt, 30MB Fixed Disk, integrated display, DASD, serial/parallel, pointing device adapter, zero wait state 3995

8550-061 a Personal System/2 Model 50 Z (1MB) w/ 10MHz 80286 CPU, Enhanced Keyboard, Keylock, Clock/Calendar, 3.5in 1.44MB Dskt, 60MB Fixed Disk, integrated display, DASD, serial/parallel, pointing device adapter, zero wait state 4595

The Personal System/2 8550 Model R21 is primarily intended for use in bank teller applications.

8550-R21 a Personal System/2 Model 50 (1MB) w/ 10MHz 80286 CPU, 50-key function KB, Keylock, Clock/Calendar, 3.5in 1.44MB Dskt, 20MB Fixed Disk, integrated display, DASD, serial/parallel, pointing device adapter 3595

8560-041 a Personal System/2 Model 60 (1MB) w/ 10MHz 80286 CPU, Enhanced Keyboard, Keylock, Clock/Calendar, 3.5in 1.44MB Diskette, 44MB Fixed Disk, and integrated display, DASD, serial/parallel, pointing device adapter 5295

8560-071 a Personal System/2 Model 60 (1MB) w/ 10MHz 80286 CPU, Enhanced Keyboard, Keylock, Clock/Calendar, 3.5in 1.44MB Diskette, 70MB Fixed Disk, and integrated display, DASD, serial/parallel, pointing device adapter 5795

8570-E61 a Personal System/2 Model 70 386 (1MB) w/ 16MHz 80386 CPU, Enhanced Keyboard, Keylock, Clock/Calendar, 3.5in 1.44MB Diskette, 60MB Fixed Disk, and integrated display, DASD, serial/parallel, pointing device adapter 5995

8570-121 a Personal System/2 Model 70 386 (2MB) w/ 20MHz 80386 CPU, Enhanced Keyboard, Keylock, Clock/Calendar, 3.5in 1.44MB Diskette, 120MB Fixed Disk, and integrated display, DASD, serial/parallel, pointing device adapter 7995

8570-A21 a Personal System/2 Model 70 386 (2MB) w/ 25MHz 80386 CPU, Enhanced Keyboard, Keylock, Clock/Calendar, 3.5in 1.44MB Diskette, 120MB Fixed Disk, integrated display, DASD, serial/parallel, 64K memory cache (3Q88) 11295

For a special promotional offering on the following models, see "Personal System/2 Classroom Network Trial Program" on page 2.

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MODEL/FC VPA	DESCRIPTION	PRICE				
8580-041 a	Personal System/2 Model 80 386 (1MB) w/ 16MHz 80386 CPU, Enhanced Keyboard, Keylock, Clock/Calendar, 3.5in 1.44MB Diskette, 44MB Fixed Disk, and integrated display, DASD, serial/parallel, pointing device adapter	6595		S68X-2311	Hardware Maintenance Service Supplement, Personal System/2 Model 70-E61, -121	75
8580-071 a	Personal System/2 Model 80 386 (2MB) w/ 16MHz 80386 CPU, Enhanced Keyboard, Keylock, Clock/Calendar, 3.5in 1.44MB Diskette, 70MB Fixed Disk, and integrated display, DASD, serial/parallel, pointing device adapter	7995		S68X-2255	Hardware Maintenance Service Supplement, Personal System/2 Model 80-041, -071	75
8580-111 a	Personal System/2 Model 80 386 (2MB) w/ 20MHz 80386 CPU, Enhanced Keyboard, Keylock, Clock/Calendar, 3.5in 1.44MB Diskette, 115MB Fixed Disk, and integrated display, DASD, serial/parallel, pointing device adapter	8995		S68X-2286	Hardware Maintenance Service Supplement, Personal System/2 Model 80-111, -311	75
8580-311 a	Personal System/2 Model 80 386 (2MB) w/ 20MHz 80386 CPU, Enhanced Keyboard, Keylock, Clock/Calendar, 3.5in 1.44MB Diskette, 314MB Fixed Disk, and integrated display, DASD, serial/parallel, pointing device adapter	11995		S68X-2221	Hardware Maintenance Reference, Personal System/2	125
				S68X-2313	Hardware Maintenance Reference Supplement, Personal System/2 Model 70-E61, -121	40
				S68X-2254	Hardware Maintenance Reference Supplement, Personal System/2 Model 80-041, -071	50
				S68X-2287	Hardware Maintenance Reference Supplement, Personal System/2 Model 80-111	50
				S229-9605	Hardware Maintenance Binder, Personal System/2	??
				S68X-2346	Hardware Maintenance Reference and Service Supplements, Personal System/2 Model 70-A21 (3Q88)	75
				S68X-2344	Hardware and BIOS Interface Technical Reference Supplements, Personal System/2 Model 70-A21 (3Q88)	50
				S68X-2330	Hardware Interface Technical Reference, Personal System/2 (Model 50, 60, 70 and 80 systems)	125
				S68X-2341	BIOS Interface Technical Reference, Personal System/2	125
				S229-9606	Technical Reference <u>Binder</u> , Personal System/2	??
<u>PERSONAL SYSTEM/2 SUPPORT PUBLICATIONS (MICROCHANNEL MODELS)</u>						
S68X-2247	Quick Reference, Personal System/2 Model 50	45				
S68X-2213	Quick Reference, Personal System/2 Model 60	45				
S68X-2308	Quick Reference and Diskette, Personal System/2 Model 70-E61, -121	45				
S68X-2345	Quick Reference and Diskette, Personal System/2 Model 70-A21 (3Q88)	45				
S68X-2259	Quick Reference, Personal System/2 Model 80-041, -071	45				
S68X-2284	Quick Reference, Personal System/2 Model 80-111, -311	45				
S68X-2246	Setup Sheet, Personal System/2 Model 50	3				
S68X-2209	Setup Sheet, Personal System/2 Model 60	3				
S68X-2222	Hardware Maintenance Service, Personal System/2	175				
				3001 a	IBM Personal System/2 80287 Math Co-Processor	595
				6320	IBM Personal System/2 80387 Math Co-Processor - 25MHZ (for 8570 model A21) (3Q88)	2395
				3002 a	IBM Personal System/2 80387 Math Co-Processor (for 8580 model 041, 071)	895
				8720 a	IBM Personal System/2 80387 Math Co-Processor (for 8580 model 111)	1295
<u>PROCESSOR FEATURES - PERSONAL SYSTEM/2 (MICROCHANNEL MODELS)</u>						

Processors - Personal System/2 (MicroChannel Models)

As of September 20, 1988

MODEL/FC VPA	DESCRIPTION	PRICE			
<u>MEMORY - PERSONAL SYSTEM/2 (MICROCHANNEL MODELS)</u>					
3006 a	IBM Personal System/2 80286 Memory Expansion Option (.5MB standard, maximum 2MB)	630	SA23-1043	Technical Reference Manual, 2MB Expanded Memory Adapter/A (XMA)	??
3012 a	IBM Personal System/2 80286 Memory Expansion Kit (.5MB, for use on FC 3006)	215	SA23-1032	Hardware Maintenance Service Update, 2MB Expanded Memory Adapter/A (XMA)	??
S68X-2227	Technical Reference Manual, 80286 Memory Expansion, Personal System/2	6	S68X-2338	2-8MB Memory Expansion Option Hardware Maintenance Supplements	25
			S68X-2339	2-8MB Memory Expansion Option Technical Reference	12
<u>DIRECT-ACCESS STORAGE DEVICES, PERSONAL SYSTEM/2 (MICROCHANNEL MOD)</u>					
3009 a	IBM Personal System/2 80386 System Board Memory Expansion Kit (1MB, for 8580-041 only)	728	3057 a	IBM Personal System/2 1.44MB Diskette Drive	256
5211 a	IBM Personal System/2 2-8MB 80386 Memory Expansion Option (2MB standard, max. 8MB, for 8570-E61 and 121 only)	1695	S68X-2225	Technical Reference Manual, 720KB/1.44MB Diskette Drive, Personal System/2	6
3019 a	IBM Personal System/2 80386 Memory Expansion Option (2MB standard, max. 6MB)	1695	8760 a	Personal System/2 5.25in External Diskette Drive Adapter/A for attaching 4869-1 to Personal System/2 (MicroChannel models)	70
3064 a	IBM Personal System/2 80386 Memory Expansion Kit (2MB, for use on FC 3019)	1395	S68X-2219	Technical Reference Manual, 20MB Fixed Disk Drive, Personal System/2 Model 50	10
S68X-2257	Technical Reference Options/Adapters Manual, 2MB-6MB Memory Expansion Option, Personal System/2	10	S68X-2226	Technical Reference Manual, Fixed Disk Adapter, Personal System/2 Model 50	12
8722 a	IBM Personal System/2 80386 System Board Memory Expansion Kit (2MB, for 8580-111 only)	1395	S68X-2234	Technical Reference Manual, ESDI Adapter/A, Personal System/2	12
5212	IBM Personal System/2 1MB Memory Module Kit - 85ns (for 8570-E61 and 121 only)	695	3046 a	IBM Personal System/2 44MB Fixed Disk Drive (for 8560-041, 8580-041)	1460
5213	IBM Personal System/2 2MB Memory Module Kit - 85ns (for 8570-E61 and 121 only)	1395	S68X-2233	Technical Reference Manual, 44MB Fixed Disk Drive, Personal System/2	6
5214	IBM Personal System/2 2MB Memory Module Kit - 80ns (for 8570-A21 only) (3Q88)	1495	6666	IBM Personal System/2 60MB Fixed Disk Drive (for 8550-021, 8550-031) (9/88)	1695
7259	IBM 0-8MB Expanded Memory Adapter/A (XMA) for Personal System/2	600	3051 a	IBM Personal System/2 70MB Fixed Disk Drive (ESDI technology, for 8560-071, 8580-071, 8580-111)	2505
3397	IBM 0.5MB Memory Module Kit (for use with Expanded Memory Adapter/A)	215	S68X-2235	Technical Reference Manual, 70MB Fixed Disk Drive, Personal System/2	6
7833	IBM 2MB Memory Module Kit (for use with Expanded Memory Adapter/A and 80286 Expanded Memory (Adapter/A)	995	8730 a	IBM Personal System/2 115MB Fixed Disk Drive (ESDI technology, for 8560-071, 8580-071, 8580-111)	3660
S01F-0227	Hardware Maintenance Library Update 0-8MB Expanded Memory Adapter/A (XMA)	??	S68X-2314	Technical Reference, 60MB and 120MB Fixed Disk, Personal System/2	9
S01F-0228	Technical Reference Manual Update 0-8MB Expanded Memory Adapter/A (XMA)	??	S68X-2236	Technical Reference Options/Adapters Manual, 115MB and 314MB Fixed Disk, Personal System/2	6

Processors - Personal System/2 (MicroChannel Models)

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MODEL/FC VPA	DESCRIPTION	PRICE
6023 a	IBM Personal System/2 314MB Fixed Disk Drive (ESDI technology, for 8580-071, 8580-111, 8580-311)	6805
S68X-2236	Technical Reference Options/Adapters Manual, 314MB Fixed Disk, Personal System/2	6
8700 b	Internal Optical Disk Drive (200MB, removable media, write once) Not for use over LAN (installs in Personal System/2 Model 60 and 80)	2700
3363-A11 b	External Optical Disk Drive (200MB, removable media, write once) Not for use over LAN (attaches to Personal System/2 except Model 30)	2950

G571-0164	IBM Personal System/2 Internal Tape Backup Unit Supplements for the Hardware Maintenance Library (10/14/88)	??
G571-0165	IBM Personal System/2 Internal Tape Backup Unit Technical Reference (10/14/88)	??
6450602	IBM Personal System/2 Screen Reader (enables visually-impaired user to hear the display as the sighted computer user sees it)	600

DISPLAYS AND ATTACHMENTS, PERSONAL SYSTEM/2

TAPE BACKUP DEVICES, PERSONAL SYSTEM/2 (MICROCHANNEL MODELS)

4160	6157 Tape Attachment Adapter for Personal System/2, req. SY-TOS Tape Utilities V.2	366
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The following displays are supported on the IBM Personal Computer by means of the IBM Display Adapter, FC 4050. The IBM Display Adapter provides enhanced function for the 8530.

MISCELLANEOUS FEATURES, PERSONAL SYSTEM/2

8770 a	IBM Personal System/2 Mouse (two-button mechanical, attaches to integrated pointing-device port, also for 8530)	99
S68X-2229	Technical Reference Manual, Mouse, Personal System/2	6
5280 A	IBM Personal System/2 Internal Tape Backup Convenience Kit (DOS Version, includes PS/2 Internal Tape Program, PS/2 Internal Tape Backup Unit and a formatted mini-tape cartridge) (10/14/88)	895
5279 a	IBM Personal System/2 Internal Tape Backup Unit (installed internally on PS/2 Models 50, 60, 70 and 80) (10/14/88)	765
5279 A	IBM Personal System/2 Internal Tape Backup Program (3.5in) (DOS Version) (10/14/88)	100
G571-0162	IBM Personal System/2 Internal Tape Backup Program Users Guide (DOS Version) (10/14/88)	??
G571-0163	IBM Personal System/2 Internal Tape Backup Unit Installation and Testing Guide (10/14/88)	??

8503-001 b	Personal System/2 Monochrome Display (12in Diagonal) (64 grey shades, 80 character x 25 line, 720H x 400V resolution (640H x 480V graphics), .35 Megapixel, built-in tilt/swivel	275
8507-001 b	Personal System/2 Monochrome Display (19in Diagonal) (16 grey shades, 80 character x 25 line, 1024H x 768V resolution, .73 Megapixel, built-in tilt/swivel) (11/30/88)	865
8512-001 b	Personal System/2 Color Display (14in Diagonal) (256 colors from palette of 256K, 80 character x 25 line, 720H x 400V resolution (640H x 480V graphics), .35 Megapixel	595
5004 a	Color Display Stand for 8512 Display	35
8513-001 b	Personal System/2 Color Display (12in Diagonal) (256 colors from palette of 256K, 80 character x 25 line, 720H x 400V resolution (640H x 480V graphics), .35 Megapixel, built-in tilt/swivel	750
8514-001 b	Personal System/2 Color Display (16in Diagonal) (256 colors from palette of 256K, up to 146 character x 51 line, 1024H x 768V resolution, .79 Megapixel, built-in tilt/swivel	1550

Processors - Personal System/2 (MicroChannel Models)

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MODEL/FC VPA	DESCRIPTION	PRICE			
S68X-2206	Technical Reference Manual, 8503, 8512, 8513 Displays for Personal System/2	6	7743	IBM Display Station Emulation Adapter/A	657
SA23-2472	Technical Reference Manual, 8507 Display for Personal System/2	4	7742	IBM Display Station Emulation Attachment Cable	70
SA23-2473	Hardware Maintenance Reference Supplement, Personal System/2 8507 Display	2	7742	IBM Display Station Emulation Attachment Cable	70
SA23-2474	Hardware Maintenance Service Supplement, Personal System/2 8507 Display	2	G571-0146	Display Station Emulation Adapter/A Quick Reference	??
SA23-2471	Installation and Testing Instructions, Personal System/2 8507 Display	?	G571-0147	Display Station Emulation Adapter/A Hardware Maintenance and Service	??
S68X-2214	Technical Reference Manual, 8514 Display for Personal System/2	6	G571-0148	Display Station Emulation Adapter/A Technical Reference	??
S68X-2218	Hardware Maintenance Reference Supplement, Personal System/2 8514 Display	6	0744 A	IBM 5520 Personal System/2 Attachment Convenience Kit Version 1.0 (Includes 5520 Attachment Pgm (#0041), Disp Station Emul Att Cable (#7742) and Disp Station Emul Adptr/A (7743)) (3.5in)	995
	All models of the Personal System/2 contain integrated monochrome and color graphics adapters for analog displays. The following features provide enhanced functions.		0741 A	IBM 5520 Personal System/2 Attachment Program Version 1.0 (Program Package)	268
			1147 A	IBM 5520 Personal System/2 Attachment Program Version 1.0 (Additional Licenses) (3.5in)	199
			1148 A	IBM 5520 Personal System/2 Attachment Program Version 1.0 (Documentation Only)	69
4054 a	IBM Display Adapter 8514/A for Personal System/2 (Microchannel Models) (Supports 8514 with 1024x768x16 color, performance improvements, 146 char x 51 lines, also grey scale)	1350	<u>IMAGE DEVICE ATTACHMENT - PERSONAL SYSTEM/2 (MICROCHANNEL MODELS)</u>		
4081 a	IBM 8514 Memory Expansion Kit for Personal System/2 (Microchannel Models) (attaches to FC 4054) provides 256 colors from palette of 256K colors plus 64 grey levels on mono displays	282	1029 a	3117 Adapter/A for Personal System/2 (MicroChannel Models) (Connects 3117, Pers Sys/2, Req. cable FC 3005)	293
S68X-2251	Technical Reference Manual, Display Adapter 8514/A, Personal System/2	10	SC18-2153	Technical Reference, 3117 Adapter/A	9.95
S68X-2248	Technical Reference Manual, Display Adapter 8514/A, Personal System/2	10	SK2T-0952	Hardware Maintenance and Service, 3117 Adapter/A	30
S68X-2249	Hardware Maintenance Reference Supplement, Personal System/2 Display Adapter 8514/A	6	1028 a	High Speed Adapter/A for Personal System/2 (MicroChannel Models) (Connects 3118, or 3117 with Expansion Unit to Pers Sys/2 at 1mbps RS422, req. serial communications cable FC 0217)	309
S68X-2250	Hardware Maintenance Service Supplement, Personal System/2 Display Adapter 8514/A	6	5442 a	IBM 3119 Adapter/A for Personal System/2 (MicroChannel Models) (Connects 3119 to PS/2)	950
S68X-2279	Display Adapter 8514/A Interface Application Developer's Tutorial	25	SC18-2155	Technical Reference, High Speed Adapter/A	13.25
			SK2T-0953	Hardware Maintenance and Service, High Speed Adapter/A	23.75

As of September 20, 1988

MODEL/FC VPA DESCRIPTION PRICE

COMMUNICATIONS HARDWARE AND SOFTWARE - PERSONAL SYSTEM/2 (MICROCHANNEL MODELS)

GENERAL

All models of the Personal System/2 contain integrated serial and parallel adapters. The following features provide enhanced functions.

		S68X-2275	Technical Reference Manual, Internal Modem/A, Personal System/2	6
		S68X-2274	Hardware Maintenance Reference Supplement, 300/1200 Modem/A	12
		3033 a	IBM Personal System/2 Dual Async Adapter/A (2 independent async ports to 19.2KBPS, max. 3 per system)	225
3042 a	IBM Personal System/2 Multi-Protocol Adapter/A (supports async, BSC, HDLC, SDLC to 19.2KBPS, all models except 8580-111 and 311)	S68X-2217	Technical Reference Manual, Dual Async Adapter/A, Personal System/2	6
				340
3043 a	IBM Personal System/2 Multi-Protocol Adapter/A (supports async, BSC, HDLC, SDLC to 19.2KBPS, all models including 8580-111 and 311)			340
S68X-2316	Technical Reference Manual, Multi-Protocol Adapter/A, Personal System/2			12
8000	Ungermann-Bass NICps/2 Adapter 1542 (supports Ethernet) (for use with 6152, 8550, 8560 and 8580 systems)			550

TWINAXIAL S/36, S/38 ATTACHMENT, PERSONAL SYSTEM/2 (MICROCHANNEL MODELS)

6279 a	IBM System 36/38 Workstation Emulation Adapter/A and Quick Reference (incl. Diagnostics)	649
6293 a	IBM System 36/38 Workstation Emulation Attachment Cable	68
SY31-9053	IBM System 36/38 Workstation Emulation Adapter Hardware Maintenance and Service	??
SA21-9862	IBM System 36/38 Workstation Emulation Adapter Technical Reference	??
SA21-9925	IBM System 36/38 Workstation Emulation Adapter/A Quick Reference and Diagnostics	??

ADAPTERS, PERSONAL SYSTEM/2 (MICROCHANNEL MODELS)

7122 a	IBM 4250 Print Adapter/A (refer to ivory 188-053 for more details)	2775
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ASYNCHRONOUS COMMUNICATION, PERSONAL SYSTEM/2 (MICROCHANNEL MODELS)

See also the Multi-Protocol Communication Adapter/A

0349 a	IBM Personal System/2 300/1200 Internal Modem/A (asynchronous)	413		
		6286 A	IBM System 36/38 Workstation Emulation Program V.1.0 (4 sessions, graphics support) (3.5in) Warranted, Central Service to 12/31/90	160
		6287 A	IBM System 36/38 Workstation Emulation Program Convenience Kit, (incl. FC 6286, 6279, 6293, SA21-9925) Warranted, Central Service to 12/31/90	845
		SC21-8068	System 36/38 Workstation Emulation Program Technical Reference	??

As of September 20, 1988

MODEL/FC VPA	DESCRIPTION	PRICE
<u>COAXIAL COMMUNICATIONS, PERSONAL SYSTEM/2 (MICROCHANNEL MODELS)</u>		
2000 a	IBM 3270 Connection for Personal System/2 (coax adapter) (attachment to 8580-041/-071)	624
G126-0190	3270 Connection Quick Reference and Diagnostics	??
GA23-0339	3270 Connection Technical Reference	??
<u>LOCAL AREA NETWORKS, PERSONAL SYSTEM/2 (MICROCHANNEL MODELS)</u>		
<u>IBM TOKEN-RING NETWORK, PERSONAL SYSTEM/2 (MICROCHANNEL MODELS)</u>		
8228-KT3	IBM Token-Ring Network Starter Kit/A (1-8228, 1-Component Housing, 4-TR PC Adapter/A, 4-TR PC Cable, 4-30ft. Jumper Cable, 4-LAN Support Pgm, 4-LAN Pgm 1.2, TR Starter Kit Guide)	4710
4790 a	IBM Token-Ring Network Adapter/A for Personal System/2 (function equivalent to Adapter II)	833
5774 a	IBM Token-Ring Network Trace and Performance PC Adapter/A, Requires Token-Ring Trace and Performance Program	1280
8881 a	Remote Program Load for Token-Ring Network Adapter/A (EPROM)	94
6466690	Update to Token-Ring Network PC Adapter Technical Reference for the Adapter/A (Chapter 9)	??
83X9112	IBM Token-Ring Network Adapter/A Hardware Maintenance Reference and Service Manual (W/D 12/20/88)	270
<u>IBM PC NETWORK, PERSONAL SYSTEM/2 (MICROCHANNEL MODELS)</u>		
1222 a	IBM PC Network Adapter II/A (broadband, 1 per PC, incl. 9-ft. coax, req. LAN Support Program or PC Network Protocol Driver)	597
5647	IBM PC Network Adapter II/A-Frequency 2 (supports broadband channels 2' and 0, 1 per PC, 9-ft. coax, req. LAN Support Program)	570
5648	IBM PC Network Adapter II/A-Frequency 3 (supports broadband channels 3' and P, 1 per PC, 9-ft. coax, req. LAN Support Program)	570
S68X-2263	IBM PC Network Adapter II/A Technical Reference	21.25
SC30-3492	IBM PC Network Adapter II/A-Frequency 2 Technical Reference	8.95
SC30-3493	IBM PC Network Adapter II/A-Frequency 3 Technical Reference	8.95
1223 a	IBM PC Network Baseband Adapter/A (req. LAN Support Program)	295
S68X-2264	IBM PC Network Baseband Adapter/A Technical Reference	21.25

As of September 20, 1988

MODEL/FC VPA DESCRIPTION PRICE

OPERATING SYSTEM/2 SOFTWARE (OS/2)

OS/2 OPERATING SYSTEMS AND PROGRAMMING AIDS

OPERATING SYSTEM/2 AND COMPILERS

Operating System/2 is supported on the IBM PC/AT and PC XT/286 with graphics displays, as well as Personal System/2 models having 80286 or 80386 CPUs.

0923 A	IBM Operating System/2 V.1.0 Standard Edition (3.5in) (OS/2) Warranted, Central Services for 12 months from availability ** (Program Package)	325
0925 A	IBM Operating System/2 V.1.0 Standard Edition (5.25in) (OS/2) Warranted, Central Services for 12 months from availability ** (Program Package)	325
0639 A	IBM Operating System/2 V.1.0 Standard Edition (OS/2) (Additional Licenses)	290
0641 B	IBM Operating System/2 V.1.0 Standard Edition (OS/2) (Documentation Only)	35
0927 A	IBM Operating System/2 V.1.0 Standard Edition Programmer's Toolkit (OS/2), Warranted, Central Service for 12 months (5.25in+3.5in) from availability **	750
0928 A	IBM Operating System/2 V.1.0 Standard Edition (OS/2) Technical Reference, Warranted, Central Service for 12 months from availability **	200
0809 A	IBM Operating System/2 V.1.1 Standard Edition (OS/2) (3.5in) Warranted, Central Services for 12 months from availability ** (Program Package) (10/88)	325

0810 A	IBM Operating System/2 V.1.1 Standard Edition (OS/2) (5.25in) Warranted, Central Services for 12 months from availability ** (Program Package) (10/88)	325
0640 A	IBM Operating System/2 V.1.1 Standard Edition (OS/2) (Additional Licenses) (10/88)	290
0642 B	IBM Operating System/2 V.1.1 Standard Edition (OS/2) (Documentation Only) (10/88)	35
0811 A	IBM Operating System/2 V.1.1 Standard Edition Programmer's Toolkit (OS/2), Warranted, Central Service for 12 months from availability ** (10/88)	750
0812 A	IBM Operating System/2 V.1.1 Standard Edition Technical Reference (OS/2), Warranted, Central Service for 12 months from availability ** (10/88)	200
7934 A	IBM Operating System/2 V.1.0 Extended Edition (3.5in) (OS/2) Warranted, Central Services for 12 months from availability ** (Program Package)	795
7933 A	IBM Operating System/2 V.1.0 Extended Edition (5.25in) (OS/2) Warranted, Central Services for 12 months from availability ** (Program Package)	795
7935 A	IBM Operating System/2 V.1.0 Extended Edition (OS/2) (Additional Licenses)	595
7939 B	IBM Operating System/2 V.1.0 Extended Edition (OS/2) (Documentation Only)	90
7937 B	IBM Operating System/2 V.1.0 Standard Edition to Extended Edition 1.0 (3.5in) (OS/2) (Upgrade)	645
7936 B	IBM Operating System/2 V.1.0 Standard Edition to Extended Edition 1.0 (5.25in) (OS/2) (Upgrade)	645

Operating System/2 Software (OS/2)

As of September 20, 1988

MODEL/FC VPA	DESCRIPTION	PRICE
7938 B	IBM Operating System/2 V.1.0 Standard Edition to Extended Edition 1.0 (OS/2) (Additional License Upgrade)	465
7941 B	IBM 3270 Workstation Control Program V.1.0 or V.1.1 to IBM Operating System/2 Extended Edition 1.0 (3.5in) (Upgrade)	595
7940 B	IBM 3270 Workstation Control Program V.1.0 or V.1.1 to IBM Operating System/2 Extended Edition 1.0 (5.25in) (OS/2) (Upgrade)	595
7942 A	IBM 3270 Workstation Control Program V.1.0 or V.1.1 to IBM Operating System/2 Extended Edition 1.0 (OS/2) (Additional License Upgrade)	395
7954 B	IBM 3270 Emulation Program V.3.0 to IBM Operating System/2 Extended Edition 1.0 (3.5in) (OS/2) (Upgrade)	595
7953 B	IBM 3270 Emulation Program V.3.0 to IBM Operating System/2 Extended Edition 1.0 (5.25in) (OS/2) (Upgrade)	595
7955 A	IBM 3270 Emulation Program V.3.0 to IBM Operating System/2 Extended Edition 1.0 (OS/2) (Additional License Upgrade)	395
7957 B	IBM 3270 Emulation Program, Entry Level, V.1.1 or V.1.2 to IBM Operating System/2 Extended Edition 1.0 (3.5in) (OS/2) (Upgrade)	695
7956 B	IBM 3270 Emulation Program, Entry Level, V.1.1 or V.1.2 to IBM Operating System/2 Extended Edition 1.0 (5.25in) (OS/2) (Upgrade)	695
7958 A	IBM 3270 Emulation Program, Entry Level, V.1.1 or V.1.2 to IBM Operating System/2 Extended Edition 1.0 (OS/2) (Additional License Upgrade)	495
7900 A	IBM Operating System/2 V.1.1 Extended Edition (3.5in) (OS/2) Warranted, Central Services for 12 months from availability ** (Program Package) (11/88)	795
7899 A	IBM Operating System/2 V.1.1 Extended Edition (5.25in) (OS/2) Warranted, Central Services for 12 months from availability ** (Program Package)	795
0634 A	IBM Operating System/2 V.1.1 Extended Edition (OS/2) (Additional License) (11/88)	595
0660 B	IBM Operating System/2 V.1.1 Extended Edition (OS/2) (Documentation Only) (11/88)	90
0661 B	IBM Operating System/2 V.1.0 or 1.1 Standard Edition to Extended Edition 1.1 (3.5in) (OS/2) (Upgrade) (11/88)	645
0662 B	IBM Operating System/2 V.1.0 or 1.1 Standard Edition to Extended Edition 1.1 (5.25in) (OS/2) (Upgrade) (11/88)	645
0644 B	IBM Operating System/2 V.1.0 or 1.1 Standard Edition to Extended Edition 1.1 (OS/2) (Additional License Upgrade) (11/88)	460
7125 B	IBM Disk Operating System (DOS) 3.X to IBM Operating System/2 Extended Edition 1.0 (OS/2) (3.5in) (Program Package Upgrade)	740
7124 B	IBM Disk Operating System (DOS) 3.X to IBM Operating System/2 Extended Edition 1.0 (OS/2) (5.25in) (Program Package Upgrade)	740
7126 B	IBM Disk Operating System (DOS) 3.X to IBM Operating System/2 Extended Edition 1.0 (OS/2) (Additional License Upgrade)	540
1431 B	IBM Disk Operating System (DOS) 3.X to IBM Operating System/2 Standard Edition 1.0 (OS/2) (3.5in) (Program Package Upgrade)	270
1430 B	IBM Disk Operating System (DOS) 3.X to IBM Operating System/2 Standard Edition 1.0 (OS/2) (5.25in) (Program Package Upgrade)	270
1432 B	IBM Disk Operating System (DOS) 3.X to IBM Operating System/2 Standard Edition 1.0 (OS/2) (Additional License Upgrade)	235
90X7931 B	IBM 3270 Workstation Control Program V.1.0 or V.1.1 to IBM Operating System/2 Extended Edition 1.1 (3.5in) (OS/2) (Upgrade) (11/88)	595
90X7930 B	IBM 3270 Workstation Control Program V.1.0 or V.1.1 to IBM Operating System/2 Extended Edition 1.1 (5.25in) (OS/2) (Upgrade)	595
90X7932 A	IBM 3270 Workstation Control Program V.1.0 or V.1.1 to IBM Operating System/2 Extended Edition 1.1 (OS/2) (Additional License Upgrade) (11/88)	395
90X7964 B	IBM 3270 Emulation Program V.3.0 to IBM Operating System/2 Extended Edition 1.1 (3.5in) (OS/2) (Upgrade) (11/88)	595

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MODEL/FC VPA	DESCRIPTION	PRICE		DESCRIPTION	PRICE	
90X7963 B	IBM 3270 Emulation Program V.3.0 to IBM Operating System/2 Extended Edition 1.1 (5.25in) (OS/2) (Upgrade) (11/88)	595		S90X-7905	IBM Operating System/2 Extended Edition Data Base Manager Programming Guide and Reference	25
90X7965 A	IBM 3270 Emulation Program V.3.0 to IBM Operating System/2 Extended Edition 1.1 (OS/2) (Additional License Upgrade) (11/88)	395		S90X-7944	IBM Operating System/2 Extended Edition V.1.0 Data Base Manager Programming Guide and Reference	25
90X7967 B	IBM 3270 Emulation Program, Entry Level, V.1.0 or V.1.1 to IBM Operating System/2 Extended Edition 1.1 (3.5in) (Upgrade) (OS/2) (11/88)	695		0828 A	BASIC 3.3 Reference Manual (For OS/2)	45
90X7966 B	IBM 3270 Emulation Program, Entry Level, V.1.0 or V.1.1 to IBM Operating System/2 Extended Edition 1.1 (5.25in) (Upgrade) (OS/2) (11/88)	695		0820 A	IBM Macro Assembler/2 (Program Package) (5.25in+3.5in)	240
90X7968 A	IBM 3270 Emulation Program, Entry Level, V.1.0 or V.1.1 to IBM Operating System/2 Extended Edition 1.1 (OS/2) (Additional License Upgrade) (11/88)	495		0879 A	IBM Macro Assembler/2 (Additional Licenses)	205
				0880 B	IBM Macro Assembler/2 (Documentation Only)	55
				0822 A	IBM BASIC Compiler/2 (Program Package) (5.25in+3.5in)	635
				0881 A	IBM BASIC Compiler/2 (Additional Licenses)	540
				0882 B	IBM BASIC Compiler/2 (Documentation Only)	55
				0818 A	IBM C/2 Compiler (Program Package) (5.25in+3.5in)	560
				0877 A	IBM C/2 Compiler (Additional Licenses)	475
				0878 B	IBM C/2 Compiler (Documentation Only)	75
<u>OPERATING SYSTEM/2 SUPPORT PUBLICATIONS</u>				6280284 A	IBM C/2 Compiler (Program Package) (3.5in) (10/88)	560
S90X-7948	IBM Operating System/2 Extended Edition System Administrator's Guide for Communications	??		6280299	IBM C/2 Compiler (Supplemental Media) (5.25in) (10/88)	N/C
S90X-7946	IBM Operating System/2 Extended Edition Problem Determination Guide for the Service Coordinator	??		6280300 A	IBM C/2 Compiler (Additional Licenses) (10/88)	475
S90X-7951	IBM Operating System/2 Extended Edition Programming Services and Problem Determination for Communications	??		6280266 B	IBM C/2 Compiler (Documentation Only) (10/88)	60
S90X-7909	IBM Operating System/2 Extended Edition ECF Server-Requester (SRPI) Programming Reference	25		6280286 B	IBM C/2 Compiler (Program Package Upgrade) (3.5in) (10/88) (W/D 7/31/89)	280
S90X-7949	IBM Operating System/2 Extended Edition V.1.0 ECF Server-Requester (SRPI) Programming Reference	25		6280298 B	IBM C/2 Compiler (Program Package Upgrade) (5.25in) (10/88) (W/D 7/31/89)	280
S90X-7950	IBM Operating System/2 Extended Edition V.1.0 APPC Programming Reference	45		6280298 B	IBM C/2 Compiler (Additional License Upgrade) (10/88) (W/D 7/31/89)	235
S90X-7910	IBM Operating System/2 Extended Edition APPC Programming Reference	45		0816 A	IBM COBOL/2 Compiler (Program Package) (5.25in+3.5in)	965
S90X-7911	IBM Operating System/2 Extended Edition ACDI Programming Reference	25		0873 A	IBM COBOL/2 Compiler (Additional Licenses)	810
S90X-7947	IBM Operating System/2 Extended Edition V.1.0 ACDI Programming Reference	25		0874 B	IBM COBOL/2 Compiler (Documentation Only)	90
				0824 A	IBM FORTRAN/2 Compiler (Program Package) (5.25in+3.5in)	635
				0875 A	IBM FORTRAN/2 Compiler (Additional Licenses)	540
				0876 B	IBM FORTRAN/2 Compiler (Documentation Only)	55
				0826 A	IBM PASCAL/2 Compiler (Program Package) (5.25in+3.5in)	635

Operating System/2 Software (OS/2)

As of September 20, 1988

MODEL/FC VPA	DESCRIPTION	PRICE		
0883 A	IBM PASCAL/2 Compiler (Additional Licenses)	540	<u>WORD PROCESSING PROGRAMS, OPERATING SYSTEM/2</u>	
0884 B	IBM PASCAL/2 Compiler (Documentation Only)	85		
<u>GRAPHICS SOFTWARE, OPERATING SYSTEM/2</u>				
0930 A	IBM Operating System/2 Graphics Development Toolkit	1400		
<u>IBM 7552 INDUSTRIAL COMPUTER SOFTWARE, OPERATING SYSTEM/2</u>				
5601-136 F	IBM Operating System/2 Support and Language Extensions/2 for the IBM 7552 Industrial Computer (FC 9001, 5072, 4576) (3.5in+5.25in)	400		
SC28-8056	Language Extensions/2 User's Guide	??		
<u>RPG II APPLICATION PLATFORM/TOOLKIT, OPERATING SYSTEM/2</u>				
1406 A	PS/2 RPG II Application Toolkit (3.5in) (Primarily intended for migration of S/3X RPG II programs into PS/2 RPG II Application Platform environment) (Program Package) Warranted, Central Service until 9/30/89	3000		
1408	PS/2 RPG II Application Toolkit (Documentation Only)	75		
1407 A	PS/2 RPG II Application Toolkit (3.5in) (Provides the capability to execute RPG II programs in a multiuser environment on the PS/2 running under OS/2) (Program Package) Warranted, Central Service until 9/30/89	1500		
1409	PS/2 RPG II Application Toolkit (Documentation Only)	75		
			<u>IBM DISPLAYWRITE 4/2 SERIES FOR OPERATING SYSTEM/2</u>	
			1121 A DisplayWrite 4/2 (3.5in) Warranted, Central Service for 90 days	495
			1122 A DisplayWrite 4/2 (5.25in) (Program Package) Warranted, Central Service to 3/31/90	495
			1121 A DisplayWrite 4/2 (3.5in) (Program Package) Warranted, Central Service to 3/31/90	495
			0663 A DisplayWrite 4/2 (Additional Licenses)	425
			0665 B DisplayWrite 4/2 (Documentation Only)	70
			1124 B DisplayWrite 4 to DisplayWrite 4/2 (3.5in) (Program Package Upgrade) (through ??)	125
			1123 B DisplayWrite 4 to DisplayWrite 4/2 (5.25in) (Program Package Upgrade) (through ??)	125
			0664 B DisplayWrite 4 to DisplayWrite/2 (Additional Licenses of Upgrade) (through ??)	100
			<u>OTHER PROGRAMS, OPERATING SYSTEM/2</u>	
			5669-329 Various Applications/2 (MERVA/2) (allows creation of S.W.I.F.T. messages, including authorization and verification) (Central Service for 6 months)	25000
			5669-330 S.W.I.F.T. Network Link/2 (DSNL/2) (allows send/receive of S.W.I.F.T. messages, including logging) (Central Service for 6 months)	17500

As of September 20, 1988

MODEL/FC VPA DESCRIPTION PRICE

IBM PS/2 ADVANCED INTERACTIVE EXECUTIVE (AIX)

	The AIX Operating System for the Personal System/2 runs only on the IBM Personal System/2 Model 80.		5713-AFD	IBM AIX PS/2 Text Formatting Services (Additional Licenses) (3.5in) (9/88) Warranted, Central Service 6 mo. notice or to 12/31/90	120
5713-AEQ	IBM AIX PS/2 Operating System (Program Package) (3.5in) (9/88) Warranted, Central Service 6 mo. notice or to 12/31/90	595	5713-AEX	IBM AIX PS/2 X-Windows (Program Package) (3.5in) (9/88) Warranted, Central Service 6 mo. notice or to 12/31/90	195
5713-AEQ	IBM AIX PS/2 Operating System (Additional Licenses) (3.5in) (9/88)	508	5713-AEX	IBM AIX PS/2 X-Windows (Additional Licenses) (3.5in) (9/88) Warranted, Central Service 6 mo. notice or to 12/31/90	130
5713-AFH	IBM AIX PS/2 Operating System Extensions (Program Package) (3.5in) (9/88) Warranted, Central Service 6 mo. notice or to 12/31/90	250	5713-AER	IBM AIX PS/2 Workstation Host Interface Program (Program Package) (3.5in) (9/88) Warranted, Central Service 6 mo. notice or to 12/31/90	400
5713-AFH	IBM AIX PS/2 Operating System Extensions (Additional Licenses) (3.5in) (9/88) Warranted, Central Service 6 mo. notice or to 12/31/90	127	5713-AER	IBM AIX PS/2 Workstation Host Interface Program (Additional Licenses) (3.5in) (9/88) Warranted, Central Service 6 mo. notice or to 12/31/90	334
5713-AEY	IBM AIX PS/2 DOS Merge (Program Package) (3.5in) (9/88) Warranted, Central Service 6 mo. notice or to 12/31/90	250	5713-AEW	IBM AIX PS/2 Transmission Control Protocol/Internet Protocol (TCP/IP) (Program Package) (3.5in) (9/88) Warranted, Central Service 6 mo. notice or to 12/31/90	300
5713-AEY	IBM AIX PS/2 DOS Merge (Additional Licenses) (3.5in) (9/88) Warranted, Central Service 6 mo. notice or to 12/31/90	197	5713-AEW	IBM AIX PS/2 Transmission Control Protocol/Internet Protocol (TCP/IP) (Additional Licenses) (3.5in) (9/88) Warranted, Central Service 6 mo. notice or to 12/31/90	266
5713-AFE	IBM AIX PS/2 Usability Services (Program Package) (3.5in) (9/88) Warranted, Central Service 6 mo. notice or to 12/31/90	250	5713-AET	IBM AIX PS/2 INmail/INed/INnet/FTP (Program Package) (3.5in) (9/88) Warranted, Central Service 6 mo. notice or to 12/31/90	250
5713-AFE	IBM AIX PS/2 Usability Services (Additional Licenses) (3.5in) (9/88) Warranted, Central Service 6 mo. notice or to 12/31/90	213	5713-AET	IBM AIX PS/2 INmail/INed/INnet/FTP (Additional Licenses) (3.5in) (9/88) Warranted, Central Service 6 mo. notice or to 12/31/90	211
5713-AFD	IBM AIX PS/2 Text Formatting Services (Program Package) (3.5in) (9/88) Warranted, Central Service 6 mo. notice or to 12/31/90	200			

IBM PS/2 Advanced Interactive Executive (AIX)

As of September 20, 1988

MODEL/FC VPA	DESCRIPTION	PRICE
5713-AFA	IBM AIX PS/2 VS FORTRAN (Program Package) (3.5in) (9/88) Warranted, Central Service 6 mo. notice or to 12/31/90	275
5713-AFA	IBM AIX PS/2 VS FORTRAN (Additional Licenses) (3.5in) (9/88) Warranted, Central Service 6 mo. notice or to 12/31/90	198
5713-AEZ	IBM AIX PS/2 VS Pascal (Program Package) (3.5in) (9/88) Warranted, Central Service 6 mo. notice or to 12/31/90	275
5713-AEZ	IBM AIX PS/2 VS Pascal (Additional Licenses) (3.5in) (9/88) Warranted, Central Service 6 mo. notice or to 12/31/90	169
5713-AFC	IBM AIX PS/2 C Language (Program Package) (3.5in) (9/88) Warranted, Central Service 6 mo. notice or to 12/31/90	275
5713-AFC	IBM AIX PS/2 C Language (Additional Licenses) (3.5in) (9/88) Warranted, Central Service 6 mo. notice or to 12/31/90	202
5713-AEP	IBM AIX PS/2 Application Development Toolkit (Program Package) (3.5in) (9/88) Warranted, Central Service 6 mo. notice or to 12/31/90	175
5713-AEP	IBM AIX PS/2 Application Development Toolkit (Additional Licenses) (3.5in) (9/88) Warranted, Central Service 6 mo. notice or to 12/31/90	109
11F8252 A	IBM AIX Access for DOS Users (3/31/89) (Program Package) Warranted, Central Service 6 mo. notice or to 8/31/90	150
11F8240 A	IBM AIX Access for DOS Users (3/31/89) (Additional Licenses) Warranted, Central Service 6 mo. notice or to 8/31/90	108
11F8253 A	IBM X-Windows for IBM DOS (3/31/89) (Program Package) Warranted, Central Service 6 mo. notice or to 8/31/90	195
11F8241 A	IBM X-Windows for IBM DOS (3/31/89) (Additional Licenses) Warranted, Central Service 6 mo. notice or to 8/31/90	156
5713-AFJ	IBM AIX PS/2 Distributed Services (3/89) (Program Package) Warranted, Central Service 6 mo. notice or to 12/31/90	400
5713-AFJ	IBM AIX PS/2 Distributed Services (3/89) (Additional Licenses) Warranted, Central Service 6 mo. notice or to 12/31/90	364
5713-AFG	IBM AIX PS/2 Network File System (3/89) (Program Package) Warranted, Central Service 6 mo. notice or to 12/31/90	400
5713-AFG	IBM AIX PS/2 Network File System (3/89) (Additional Licenses) Warranted, Central Service 6 mo. notice or to 12/31/90	363
5713-AFF	IBM AIX PS/2 DOS Server (3/89) (Program Package) Warranted, Central Service 6 mo. notice or to 12/31/90	225
5713-AFF	IBM AIX PS/2 DOS Server (3/89) (Additional Licenses) Warranted, Central Service 6 mo. notice or to 12/31/90	152
5713-AFK G	IBM AIX PS/2 Transparent Computing Facility (3/89) (Program Package) Warranted, Central Service 6 mo. notice or to 12/31/90	400
5713-AFK G	IBM AIX PS/2 Transparent Computing Facility (3/89) (Additional Licenses) Warranted, Central Service 6 mo. notice or to 12/31/90	345
5601-202 G	IBM AIX PS/2 X.25 (3/89) (Program Package) Warranted, Central Service 6 mo. notice or to 12/31/90	600
5601-202 G	IBM AIX PS/2 X.25 (3/89) (Additional Licenses) Warranted, Central Service 6 mo. notice or to 12/31/90	559
<u>ORACLE RELATIONAL DATA BASE MANAGEMENT SYSTEM FOR AIX PS/2</u>		
The ORACLE offerings are available in multi-user versions The offerings below are priced for single-user versions.		
5713-AFQ	ORACLE Data Base Management System (9/30/88)	1500
5713-AFX	SQL*Plus (9/30/88)	300
5713-AGB	SQL*Forms (9/30/88)	375
5713-AGC	SQL*Menu (9/30/88)	225
5713-AGA	SQL*Net (9/30/88)	300
5713-AFR	SQL*Net TCP/IP Protocol Device Driver (9/30/88)	225
5713-AFZ	Pro*C Programming Interface (9/30/88)	225

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MODEL/FC VPA	DESCRIPTION	PRICE
5713-ACG	Pro*FORTRAN Programming Interface (9/30/88)	225

INGRES RELATIONAL DATA BASE MANAGEMENT SYSTEM FOR AIX PS/2

The INGRES offerings are available in multi-user versions. The offerings below are priced for single-user versions.

5709-003	INGRES Data Base Management System (9/30/88)	2000
5709-004	INGRES/APPLICATIONS (9/30/88)	600
5709-008	Embedded SQL Preprocessor for FORTRAN (9/30/88)	200
5709-009	Embedded SQL Preprocessor for Pascal (10/28/88)	200
5709-005	INGRES/NET (10/28/88)	N/C
5709-006	INGRES/STAR (12/30/88)	600
5709-007	INGRES/PCLINK (9/30/88)	200

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MODEL/FC VPA	DESCRIPTION	PRICE
<u>IBM PC PROCESSORS AND FEATURES (INCLUDING NON-MICROCHANNEL PERSONAL SYSTEM/2)</u>		
<u>PC SUPPORT PUBLICATIONS</u>		
2510 a	Guide to Operations Manual - IBM PC (order via PCTB)	50
8525-004 a	Personal System/2 Model 25 (512KB) w/ 8MHz 8086 CPU, Space-saving Keyboard, one 3.5in 720KB Diskette Drive, integ. color 12in display, integ. DASD, serial/parallel, earphone, pointing device adapters	1695
<u>PC/XT SUPPORT PUBLICATIONS</u>		
3085 a	PC/XT Guide to Operations (models 089, 268, 278) (order via PCTB)	80
3089 a	Technical Reference Manual - IBM PC/XT (640KB motherboard models and Portable) (order via PCTB)	49.75
8525-G04 a	Personal System/2 Model 25 (512KB) w/ 8MHz 8086 CPU, Enhanced Keyboard, one 3.5in 720KB Diskette Drive, integ. color 12in display, integ. DASD, serial/parallel, earphone, pointing device adapters	1740
2511 a	Guide to Operations Manual - IBM PC/XT (prior models) (order via PCTB)	50
<u>PROCESSORS AND OPTIONS - PERSONAL SYSTEM/2 MODEL 25</u>		
	The Personal System/2 Model 25 supports many PC and PC/XT adapters.	
8525-001 a	Personal System/2 Model 25 (512KB) w/ 8MHz 8086 CPU, Space-saving Keyboard, one 3.5in 720KB Diskette Drive, integ. monochrome 12in display, integ. DASD, serial/parallel, earphone, pointing device adapters	1350
8525-002 a	Personal System/2 Model 25 (640KB) w/ 8MHz 8086 CPU, Space-saving Keyboard, two 3.5in 720KB Diskette Drives, integ. monochrome 12in display, integ. DASD, serial/parallel, earphone, pointing device adapters	1883
8525-G01 a	Personal System/2 Model 25 (512KB) w/ 8MHz 8086 CPU, Enhanced Keyboard, one 3.5in 720KB Diskette Drive, integ. monochrome 12in display, integ. DASD, serial/parallel, earphone, pointing device adapters	1395
8525-K02 a	Personal System/2 Model 25 (640KB) w/ 8MHz 8086 CPU, Enhanced Keyboard, two 3.5in 720KB Diskette Drives, integ. monochrome 12in display, integ. DASD, serial/parallel, earphone, pointing device adapters	1928
8525-C05 a	Personal System/2 Model 25 (640KB) w/ 8MHz 8086 CPU, Space-saving Keyboard, two 3.5in 720KB Diskette Drives, integ. color 12in display, and integ. DASD, serial/parallel, earphone, pointing device adapters	2228

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MODEL/FC VPA	DESCRIPTION	PRICE				
8525-K05 a	Personal System/2 Model 25 (640KB) w/ 8MHz 8086 CPU, Enhanced Keyboard, two 3.5in 720KB Diskette Drives, integ. color 12in display, integ. DASD, serial/parallel, earphone, pointing device adapters	2273		S01F-0246	Hardware Maintenance Service Supplement, Personal System/2 Model 25 Fixed Disk Drive	7.40
				S01F-0245	Technical Reference Update Number 1, Personal System/2 Model 25 Fixed Disk Drive	3.40
				S01F-0247	Technical Reference, Personal System/2 Model 25 Fixed Disk Drive with Adapter	2.85
	The IBM Personal System/2 Model 25 LS is preconfigured with the IBM Token-Ring Network PC Adapter for use in a LAN.			SA23-1200	Hardware Maintenance Reference Supplement, Personal System/2 Model 25	9
				S01F-0200	Hardware Maintenance Binder	17
8525-L01 a	Personal System/2 Model 25 LS (640KB) w/ 8MHz 8086 CPU, Enhanced Keyboard, one 3.5in 720KB Diskette Drives, integ. monochrome 12in display, integ. DASD, serial/parallel, earphone, Token Ring Network adapter	2139		<u>PROCESSORS - PERSONAL SYSTEM/2 MODEL 30</u>		
					The Personal System/2 Model 30 supports many PC and PC/XT adapters.	
8525-L04 a	Personal System/2 Model 25 LS (640KB) w/ 8MHz 8086 CPU, Enh Kbd, one 3.5in 720KB Diskette Drives, integ. color 12in display, integ. DASD, serial/parallel, earphone, Token Ring Network adapter	2484			Personal System/2 system units require a Personal System/2 analog display.	
4106 a	3.5in (720KB) Diskette Drive for PS/2 M25	170		8530-002 a	Personal System/2 Model 30 (640KB) w/ 8MHz 8086 CPU, Enhanced Keyboard, Keylock, Clock/Calendar, two 3.5in 720KB Diskette Drives, and integrated display, DASD, serial/parallel, pointing device adapter	1775
4107	20MB Fixed Disk Drive for PS/2 M25 (integrated disk drive/adaptor) (4Q88)	795		8530-021 a	Personal System/2 Model 30 (640KB) w/ 8MHz 8086 CPU, Enhanced Keyboard, Keylock, Clock/Calendar, 3.5in 720KB diskette, 20MB Fixed Disk, and integrated display, DASD, serial/parallel, pointing device adapter	2395
4110	20MB Fixed Disk Drive for PS/2 M25 (disk drive and adapter-requires 1 slot)	795				
4105 a	IBM Personal System/2 Model 25 System Board 128KB Memory Expansion Kit	49				
4103 a	Carrying case, Personal System/2 Model 25	69			The Personal System/2 8530 Models R02 and R21 are primarily intended for use in bank teller applications.	
<u>SUPPORT PUBLICATIONS - PERSONAL SYSTEM/2 MODEL 25</u>				8530-R02 a	Personal System/2 Model 30 (640KB) w/ 8MHz 8086 CPU, 50-key function Keyboard, Keylock, Clock/Calendar, two 3.5in 720KB Diskette Drives, and integrated display, DASD, serial/parallel, pointing device adapter	1775
S75X-1051	Guide to Operations - Personal System/2 Model 25	24		8530-R21 a	Personal System/2 Model 30 (640KB) w/ 8MHz 8086 CPU, 50-key function Keyboard, Keylock, Clock/Calendar, 3.5in 720KB diskette, 20MB Fixed Disk, and integrated display, DASD, serial/parallel, pointing device adapter	2395
SA23-1201	Hardware Maintenance and Service Supplement, Personal System/2 Model 25	33				
SA23-1202	Technical Reference Manual, Personal System/2 Model 25	28.75				
S01F-0248	8525/8530 Service Summary, Personal System/2	2.05				
S01F-0244	Hardware Maintenance Reference Supplement, Personal System/2 Model 25 Fixed Disk Drive	3.50				

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MODEL/FC VPA	DESCRIPTION	PRICE		
<u>SUPPORT PUBLICATIONS - PERSONAL SYSTEM/2 MODEL 30</u>				
S68X-2239	Personal System/2 Model 30 Setup Instructions	3	8635	Personal System/2 Multifunction Adapter (provides Model 30 286 with additional serial port, additional parallel port, up to 12Mb extended memory) (12/2/88)
S68X-2230	Personal System/2 Model 30 Guide to Operations	45		445
S68X-2201	Personal System/2 Model 30 Technical Reference Manual	75		
S68X-2205	Technical Reference Manual Supplement, 8530 Fixed Disk Drive	6	<u>MISCELLANEOUS FEATURES - PERSONAL SYSTEM/2 MODEL 30 286</u>	
S68X-2202	Personal System/2 Model 30 Hardware Maintenance Service	30	5004	Personal System/2 External 5.25-inch 360KB Diskette Adapter Cable Kit
S68X-2203	Personal System/2 Model 30 Hardware Maintenance Service Reference Supplement	10		18
<u>PROCESSORS - PERSONAL SYSTEM/2 MODEL 30 286</u>			<u>SUPPORT PUBLICATIONS - PERSONAL SYSTEM/2 MODEL 30 286</u>	
	The Personal System/2 Model 30 286 supports many PC/AT and PC/XT 286 adapters.		S01F-0251	Personal System/2 Model 30 286 Guide to Operations
	Personal System/2 system units require a Personal System/2 analog display.		S01F-0237	Personal System/2 Model 30 286 Technical Reference Manual
8530-E01 a	Personal System/2 Model 30 286 (512KB) w/ 10MHz 80286 CPU, Enh. Kbd., Keylock, Clock/Calendar, one 3.5in 1.44Mb Diskette Drive, integrated display, DASD, serial/parallel, pointing device adapter, VGA) (Avail. through IBM Authorized Dealers)	1995	S01F-0234	Personal System/2 Model 30 286 Hardware Maintenance Reference Supplement
8530-E21 a	Personal System/2 Model 30 286 (512KB) w/ 10MHz 80286 CPU, Enh. Kbd., Keylock, Clock/Calendar, one 3.5in 1.44Mb Diskette Drive, 20Mb FD, integ. display, DASD, serial/parallel, pointing device adapter, VGA)	2595	S01F-0235	Personal System/2 Model 30 286 Hardware Maintenance Service Supplement
			S01F-0236	Personal System/2 Model 30 286 Service Summary (Reference Card)
<u>DIRECT ACCESS STORAGE DEVICES - PERSONAL SYSTEM/2 MODEL 30 286</u>				37
4115	Personal System/2 20Mb Fixed Disk Drive (for 8530-E01) (Available only through IBM Authorized Dealers)	765	<u>IBM PERSONAL TYPING SYSTEM</u>	
<u>ADAPTERS - PERSONAL SYSTEM/2 MODEL 30 286</u>			The IBM Personal Typing System is an application specific workstation integrating the functions of a word processor and typewriter. It includes a system unit, system and application software, keyboard, color or monochrome display, and an impact or nonimpact printer. It can also be used as a personal computer capable of running PC applications under DOS 3.3. With the addition of an optional expansion unit, it will accommodate up to three full size personal computer adapter cards for additional applications, such as communications in a host environment.	
			All offerings feature key-to-print typing and correction modes which eliminate the need to maintain a typewriter in addition to a word processor/personal computer.	
			The IBM Personal Typing System will be sold by certified Authorized IBM Typewriter Dealers. The prices below are suggested retail prices. Dealer prices may vary.	
			See also the Personal Typing SolutionPac.	

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MODEL/FC VPA	DESCRIPTION	PRICE
6900-001	IBM Personal Typing System - 001 (incl. system unit, Keyboard, Software, 8503 Monochrome Display, Correcting Wheelwriter Printer)	2895
6900-002	IBM Personal Typing System - 002 (incl. system unit, Keyboard, Software, 8503 Monochrome Display, Correcting Quietwriter Printer)	3295
6900-003	IBM Personal Typing System - 003 (incl. system unit, Keyboard, Software, 8513 Color Display, Correcting Wheelwriter Printer)	3330
6900-004	IBM Personal Typing System - 004 (incl. system unit, Keyboard, Software, 8513 Color Display, Correcting Quietwriter Printer)	3730
6900-005	IBM Personal Typing System - 005 (incl. system unit, Keyboard, Software, 8503 Monochrome Display)	1895
6900-006	IBM Personal Typing System - 006 (incl. system unit, Keyboard, Software, 8513 Color Display)	2330

PROCESSORS - PC/XT 286 VERSIONS

5162-286 a	IBM PC/XT 286 System Unit (640KB) w/ 6MHz 80286 CPU, Serial/Parallel Adapter, Enhanced Keyboard, Clock/Calendar, 20MB Fixed Disk, High-Capacity Diskette Drive and Adapter	2495
72X8498	Battery, PC/XT 286 Clock	8.95
The PC/XT 286 also supports the 720KB 3.5in Diskette Drive (FC 0357) of the PC/AT		
0359 a	High Capacity Diskette Drive (1.2MB), PC/XT 286	315
0360 a	360KB 5.25in Diskette Drive, PC/XT 286	260

PC/XT 286 SUPPORT PUBLICATIONS

3216	IBM PC/XT 286 Guide to Operations (order via PCTB)	65
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3210	Technical Reference Manual - PC/XT 286 (order via PCTB)	50
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PROCESSORS AND OPTIONS - PC/AT VERSIONS

5170-319 a	IBM PC/AT System Unit (512KB) w/ 8MHz 80286 CPU, PC/AT Keyboard, Keylock, Clock/Calendar, one High-Capacity Diskette Drive, one 30MB Fixed Disk and Adapter, and Serial/Parallel Adapter	4815
5170-339 a	IBM PC/AT System Unit (512KB) w/ 8MHz 80286 CPU, Enhanced Keyboard, Keylock, Clock/Calendar, one High-Capacity Diskette Drive, one 30MB Fixed Disk and Adapter, and Serial/Parallel Adapter	4815

PC/AT SUPPORT PUBLICATIONS

3102 a	Guide to Operations Manual - IBM PC/AT (8MHz motherboard model 339) (order via PCTB)	80
0066 a	Guide to Operations Manual - IBM PC/AT (6MHz models) (order via PCTB)	49.50

PROCESSORS - 3270-PC VERSIONS

For associated software, see "Coaxial Communication (3270-PC Family)" on page 63.

5271 models with XMA or the Enhanced
Keyboard require 3270-PC Control
Program Version 3.0 or later.

The following system units are based
on a planar board (motherboard)
capable of holding up to 640KB of
memory

In addition to the options listed below, these models of the
3270-PC (only) support the following PC options:

- 3325 - 360KB Half-Height Diskette Drive
- 3326 - 20MB Fixed Disk Drive
- 3327 - 20MB Fixed Disk Adapter

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MODEL/FC VPA	DESCRIPTION	PRICE
5730 a	3270-PC Keyboard (replacement if ordered separate)	295
3910 a	IBM 2MB Expanded Memory Adapter (XMA) for 5271, 5273, supported by 3270 Workstation Program as XMA, EMS, and VDISK, incl. printer adapter	129 ⁵⁰
8V0196	RPQ to attach 5271 to 4701	N/C
	The 5271 also supports the 5151 PC Monochrome Display as an alternative to the 5272 Color Display.	

3270-PC SUPPORT PUBLICATIONS

GA23-0179	3270-PC Introduction and Preinstallation Planning Manual	N/C
3520	3270-PC Hardware Maintenance and Service Manual (models 30, 50, 70)	60.25
3530	3270-PC Hardware Maintenance and Service Manual (640KB motherboard models exc. 30, 50, 70)	65.75

PROCESSORS - 3270-PC/AT VERSIONS

For associated software, see "Coaxial Communication (3270-PC Family)" on page 63.

The 5273 models require DOS 3.1 and 3270-PC Control Program Version 2.1 or later.

5273 models with XMA or the Enhanced Keyboard or an 8MHz motherboard require 3270-PC Control Program Version 3.0 or later.

3005	5085 Attachment to 3270-PC/AT, Incl. Graphics Interface Control Program, Warranted, Central Service for 90 days or to 6/87 (Order on 5085)	2045
9600	Graphics Interface Control Program (separately) Warranted, Central Service for 90 days or to 6/87	250

Also accepts the following PC/AT and 3270-PC options:

- 5272-001 - 3270-PC Color Display

- 5151-001 - PC Monochrome Display
- 0205 - 20MB Fixed Disk Drive
- 0206 - High Capacity Diskette Drive
- 0207 - Dual-Sided Diskette Drive
- 0209 - 128KB Memory Expansion Option
- 0211 - Math Co-Processor Option
- 0218 - Floor Standing Enclosure

3270-PC/AT SUPPORT PUBLICATIONS

GA23-0271	3270-PC/AT Supplement to Introduction and Preinstallation Planning Manual	N/C
GA23-0252	Guide to Operations - 3270-PC/AT	N/C
GA23-0253	Hardware Problem Determination - 3270-PC/AT	N/C
6005	Hardware Maintenance and Service Manual - 3270-PC/AT (If not ordered with 5273, order under 5273-ZZZ)	63

PROCESSORS - 3270-PC / G AND GX VERSIONS

For associated software, see "Coaxial Communication (3270-PC Family)" on page 63.

PROCESSORS AND OPTIONS

The 3270-PC/AT /G and /GX require DOS 3.1 and the 3270-PC Graphics Control Program Version 2 or later.

5730 a	Standard 3270-PC Keyboard (incl. overlay)	295
5731 a	APL 3270-PC Keyboard (incl. overlay)	295
3907 a	IEEE-488 Adapter and Cable for 5371 models (Cable is PN 6450601, incl. in FC 3907)	545
	(Use FC 1503 to order the IEEE-488 Adapter for 5373 models. Use FC 5040 to order IEEE-488 Cable for FC 1503.)	
5277-001 b	IBM Optical Mouse	340
5083-002 g	Graphics Tablet	650
1511 a	Cursor (Crosshair Mouse or 'Puck')	175
6351 a	Stylus	100

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MODEL/FC VPA	DESCRIPTION	PRICE
6248435	5083-2 PC Attach Power Supply and Cable, attaches tablet to PC, XT, AT, req. async. adapter, AT also req. FC 0242 or FC 0217	150
	The following kits upgrade a PC/AT model 068 or 099 to a 3270-PC/AT/PC/G or /GX.	
	Order FC 3112 or 3113 for documentation. FC 2507 may be added for 3278/79 emulation. FC 5730 or 5731 keyboards may be added.	
7001 a	3270-PC/AT/G Option Kit (Upgrade 6MHz 5170 to /G, incl. display / mouse / tablet adapter, mouse / tablet cable, keyboard cable)	770
7002 a	3270-PC/AT/GX Option Kit (Upgrade 6MHz 5170 to /GX, incl. display / mouse / tablet adapter, mouse / tablet cable, keyboard cable, VDI drivers)	770
<u>IBM 3270-PC/G /GX SUPPORT PUBLICATIONS</u>		
GA33-3157	Introducing the IBM-3270/PC/G and /GX Ranges of Workstations	N/C
GA33-3158	3270-PC/G and /GX Ranges of Workstations: Planning Guide	N/C
3112 b	3270-PC/AT/G Guide to Operations and Maintenance Information Manual (order on 5278-002)	N/C
3113 b	3270-PC/AT/GX Guide to Operations and Maintenance Information Manual (order on 5378-?01)	N/C
7003 a	3270-PC/G Guide to Operations and Maintenance Information Manual (order on 5371-ZZZ)	N/C
7004 a	3270-PC/GX Guide to Operations and Maintenance Information Manual (order on 5371-ZZZ)	N/C
<u>PC/G DISPLAY OPTIONS</u>		
5278-001 b	Display Attachment Unit	2530
7003 a	Specify attachment to 5371 (Guide to Operations, Maintenance Information, same as FC above)	N/C
3112 b	Specify attachment to 5373 (Guide to Operations, Maintenance Information, same as FC above)	N/C
7675 a	Stand with Tilt, Swivel, Height adjust	200
7676 a	Stand with Tilt, Swivel adjust	N/C
<u>PC/GX DISPLAY OPTIONS</u>		
5335	5378 Microcode Upgrade Kit for use with 3270-PC/AT (5373)	N/C
<u>PROCESSORS - PC/XT/370 AND PC/AT/370 VERSIONS</u>		
For associated software, see "VM/PC" on page 90.		
The motherboard of the PC/AT/370 contains 512KB. The S/370 Feature Card Set contains another 512KB for the use of the S/370 processor, making a total of 1MB. In PC mode, 640KB of that total is useable by the 80286.		
5170-919 a	IBM PC/AT System Unit (8MHz, 1MB) w/std. AT keyboard, serial/parallel adapter, one 30MB Fixed Disk, one High-Capacity Diskette drive, S/370 AT Feature Card Set, 3278/79 Adapter	7635
5170-939 a	IBM PC/AT System Unit (8MHz, 1MB) w/Enhanced keyboard, serial/parallel adapter, one 30MB Fixed Disk, one High-Capacity Diskette drive, S/370 AT Feature Card Set, 3278/79 Adapter	7635
6115 a	IBM PC/AT S/370 Option Kit to upgrade existing PC/AT, order 3278/79 adapter separately	3240
<u>PC/AT/370 SUPPORT PUBLICATIONS</u>		
2527 a	Technical Reference Manual - IBM PC/AT/370	28
2529 a	Hardware Maintenance & Service (Manual and Advanced Diagnostic Diskette) for the IBM PC/AT/370	60
2980 a	Hardware Maintenance & Service for the 3278/79 Emulation Adapter in the IBM PC/AT/370	22

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MODEL/FC VPA	DESCRIPTION	PRICE				
<u>PROCESSORS - 4680 PC VERSION</u>						
For associated software, see "4680 Operating System" on page 91.						
5170-849 a	IBM PC/AT System Unit (8MHz, 512KB)w/80286 CPU, Enhanced Keyboard, Keylock, Clock/Calendar, High-Capacity Diskette Drive, 30MB Fixed Disk+Adapter, Serial/Parallel Adapter, Store Loop Adapter	5940		3340	Operator Display, 2 Rows of 20 Characters	275
6500	Store Controller Kit (allows PS/2 Models 60, 70 and 80 to become a store controller for the IBM Store System)	1125		3342	Display Extension Cable (for use when FC3339 or FC3340 are separated from 4683 base)	47
6601	Store Loop Cable	42		3343	40-Character Alphanumeric Display	360
6701	Second Store Loop Adapter/A	875		3344	Alphanumeric Display Cable, Integrated	11
4683-001	Point-of-Sale Terminal (attach to Store Loop driven by 5170 Store Controller)	2905		3345	Alphanumeric Display Cable, Distributed	42
4683-002	Point-of-Sale Terminal (attach to 4683-001)	1265		4192	Dual-Track Magnetic Stripe Reader	250
4683-A01	Point-of-Sale Terminal	3455		6266	Y-Connector	100
4683-A02	Point-of-Sale Terminal	1440		1040247	Purple Ribbon Cartridge	13.50
4687-001 b	Point-of-Sale Scanner (attach to all models of IBM 4683 Point of Sale Terminal) (10/28/88)	2015		83X7605	Raised Keybutton Kit	13
25F8671	10 Piece Hardened Glass Replacement Kit for Point-of-Sale Scanner (10/28/88)	52.50		3320	50-key Modifiable Keyboard	264
25F8672	Side Extension Kit for Point-of-Sale Scanner (10/28/88)	37.50		3322	84-key Alphanumeric Keyboard, Modifiable, w/Mgr Keylock (req. FC3325 or FC3326)	490
25F8673	Custom Lift Handle for Point-of-Sale Scanner (10/28/88)	37.50		3325	Keyboard Cable, Integrated	14
				3326	Keyboard Cable, Distributed	38
				3330	Keybutton Kit, Retail Format	5
8314	IBM 4683 Model 2 Attachment Adapter Kit	795		3357	Line Cord, 9-foot	10
8314	IBM 4683 Model 2 Attachment Adapter Kit	795		3358	Line Cord, 6-foot	10
	Specify one of the following lock inserts for each printer (FC 3380), cash drawer (FC 3360, 3361), or keyboard (FC 3320).			3360	Cash Drawer, Fixed Till	205
9201	Lock insert, randomly selected, with 2 keys	N/C		3361	Cash Drawer, Adjustable Till	209
9202	(FC's 9292-9221, PN's 4783902-4783921)			3364	Cash Drawer Cable, Integrated	10
9223	Lock insert, specific, with 2 keys	N/C		3365	Cash Drawer Cable, Distributed	27
	Lock insert, non-operating	N/C		3380	Printer	724
3323	Matrix Keyboard	560		3384	Printer Cable, Integrated	31
3339	Shopper Display, 8-Position Numeric	205		3385	Printer Cable, Distributed	69
				4000	Feature Expansion A	475
				4001	Feature Expansion B	315
				4002	Feature Expansion C	524
				4003	Feature Expansion D	586
				4010	Magnetic Stripe Reader	182
				4012	Security Base	21
				4014	Adapter for 3687 Checkout Scanner Model 2	174
				4016	Magnetic Wand Reader	378
				4020	Asynchronous Communication Cable, RS-232C	87
				4022	Asynchronous Communication Cable, RS232C or Current Loop	96
				4024	Non-IBM OCR Hand-Held Reader Cable	98
				4030	Base Unit Cable for 4683-2, 6 meters	44
				4032	Base Unit Cable for 4683-2, 20 meters	107
				4034	Base Unit Cable for 4683-2, 4 meters	90
				4040	Store Loop Cable for 4683, 4 meters	41
				3466	Non-IBM Special Attachment Cable	40
				4026	Non-IBM Scale Cable	76
				4028	Non-IBM Coin Dispenser Cable	55

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MODEL/FC VPA	DESCRIPTION	PRICE			
4500	Hand-Held Bar Code Reader	950			
7426	228mm Display Pedestal-Integrated	70			
7429	228mm Display Pedestal-Distributed	24			
8002	Second Store Loop Adapter	875			
8003	Store Loop Cable	42			
8277	Integrated Display Cable	60			
8278	Distributed Display Cable	78			
1520-A02	Hand-Held Scanner (req. FC 3326 for attachment to 4683)	1735			
9512	4683 Power Cable, 4.3m (14ft) Locking (specify code)	N/C			
9510	4683 Power Cable, 4.3m (14ft) Non-Locking (specify code)	N/C			
9513	4683 Power Cable, 1.8m (6ft) Locking (specify code)	N/C			
9511	4683 Power Cable, 1.8m (6ft) Non-Locking (specify code)	N/C			
1584-S01	Toledo Scales, Scale Model 8213-006 (special bid only)	619			
1584-S02	Toledo Scales, Scale Model 8213-007 (special bid only)	599			
6724	Remote Display for Toledo Scales 8213-007 with 7-ft. cable (special bid only)	100			
6725	Remote Display for Toledo Scales 8213-007 with 25-ft. cable (special bid only)	112			
<u>PROCESSORS - 4700 PC VERSION</u>					
	Requires 4700 PC Application Services, FC 4406.				
	Supports a number of 4700 printers, keyboards, and magnetics devices.				
5160-470 a	IBM PC/XT System Unit (256KB) w/107-key administrative keyboard (=4700 FC 4607), 4700 FCS Input Option, one Dual-Sided Diskette Drive (no Async adapter)	3065			
4707-001 f	Monochrome Display (high resolution direct drive display for IBM Personal System/2 Models 30, 50, 60 and 80) -refer to ivory letter #187-203 for cable ordering information	275			
4712-001 f	Transaction Printer (cut form receipt and journal printer) -refer to ivory letter #187-204 for cable ordering information				1100
4712-002 f	Transaction Printer (journal-only printer) -refer to ivory letter #187-204 for cable ordering information				1000
4722-001 f	Document Printer (passbook and cut form printer) -refer to ivory letter #187-204 for cable ordering information				2000
4722-002 f	Document Printer (cut-form-only printer) -refer to ivory letter #187-205 for cable ordering information				1500
4717-001 f	Magnetic Stripe Reader (Reads ISO Tracks 1 and 2 on ID cards)				349
4717-002 f	Magnetic Stripe Reader/Encoder (Reads ISO Tracks 2 and 3 on ID cards and encodes magnetic striped passbooks)				699
4717-003 f	Magnetic Stripe Reader/Encoder (Reads and encodes ISO Tracks 1 and 2 on ID cards)				699
8641 f	Extender Cable (Adds 34 inches cabling to 44 inches that comes with the 4717/4718)				20
4718-001 f	Personal Identification Number Keypad				349
8634 f	Y Cable for 4717/4718 (Allows coexistence of 4717/4718)				35
3000	Serial Interface Card				140
3001	Parallel Interface Card				70
3002	Loop Interface Card				350
5612	Parallel Attachment Cable				47
6031	Serial Attachment Cable				47
6598	Acoustic Cover				10
8927	4700 Financial I/O Hardware Guide				31
GC31-3762	4700 Financial I/O Planning Guide				5.05
GC31-3770	4700 Financial I/O Programming Guide				7.60
SC31-3763	4700 Financial I/O Operating Guide				12
SC31-3771	4712 Service Guide				??
SC31-3772	4722 Service Guide				??
GC31-2071	4700 Programming Library				??
6361605	4700 PC Hardware Maintenance and Service Manual				??
6049 a	FCS Input Option, non-PC/AT (attach 4700 keyboards, mag. stripe readers, remote IPL requires 3278/79 emulation adapter)				681

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MODEL/FC VPA	DESCRIPTION	PRICE
6065 a	FCS Input Option, PC/AT (attach 4700 keyboards, mag. stripe readers, remote IPL requires 3278/79 emulation adapter)	681
6052 a	FCS Output Option, non-PC/AT (attach 4700 printers, re-direct PC output to 4700)	655
6068 a	FCS Output Option, PC/AT (attach 4700 printers, re-direct PC output to 4700)	655
6054 a	FCS Security Option, non-PC/AT (Set master and session keys, encryption interface program)	576
6069 a	FCS Security Option, PC/AT (Set master and session keys, encryption interface program)	576

PROCESSORS - TEMPEST PC VERSIONS AND OPTIONS

The following TEMPEST systems are composed of a system unit with a model 4451 TEMPEST Monochrome Display.

4450----	TEMPEST PC System Unit/Display 'TPC1' (192KB) w/TEMPESTed keyboard, monochrome display adapter, two Dual-Sided Diskette drives, Async adapter, SDLC Communications adapter, and RS232C Serial Printer Adapter	Commercial price	5995
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The following TEMPEST systems are composed of a system unit with a model 4451 TEMPEST Monochrome Display.

Also supports the following 5160 and 5170 options:

▪ IBM 4201 - Proprinter			
▪ IBM 5151 - Monochrome Display	4455----	TEMPEST PC/XT System Unit/Display 'TPC2-1' (256KB) w/TEMPESTed keyboard, monochrome display/printer adapter, Dual-Sided Diskette drive, and 10MB Fixed Disk drive	Commercial price
▪ IBM 5152 - Printer			
▪ IBM 5153 - Color Display			
▪ IBM 5154 - Enhanced Color Display			
▪ 0202 - 256KB Memory Module Kit (PC/AT)			
▪ 0203 - 512KB Memory Expansion Option (PC/AT)			
▪ 0205 - 20MB Fixed Disk Drive (PC/AT)			
▪ 0206 - High Capacity Diskette Drive (PC/AT)	4455----	TEMPEST PC/XT System Unit/Display 'TPC2-2' (256KB) w/TEMPESTed keyboard, monochrome display/printer adapter, Dual-Sided Diskette drive, and 2 5MB Removable Disk drives	Commercial price
▪ 0207 - Dual-Sided Diskette Drive (PC/AT)			
▪ 0209 - 128KB Memory Expansion Option (PC/AT, Input and Security Options only)			
▪ 0210 - 30MB Fixed Disk Drive (PC/AT)			
▪ 0211 - Math Co-Processor (PC/AT)			
▪ 0215 - Serial/Parallel Adapter (PC/AT)	100A496	Additional 5MB Disk Cartridge	Commercial price
▪ 0217 - Serial Adapter Cable (PC/AT)			243
▪ 0218 - Floor Standing Enclosure (PC/AT)			
▪ 0220 - Prototype Adapter (PC/AT)			
▪ 0242 - Serial Adapter Connector (PC/AT)	4455----	TEMPEST PC/XT System Unit/Display 'TPC2-3' (256KB) w/TEMPESTed keyboard, monochrome display/printer adapter, two Dual-Sided Diskette drives	Commercial price
▪ 1003 - 64KB Memory Module Kit (non-PC/AT)			
▪ 1013 - 64/256KB Memory Expansion Option (non-PC/AT)			
▪ 1200 - Enhanced Graphics Adapter			
▪ 1201 - Graphics Memory Expansion Card			
▪ 1203 - Graphics Memory Module			
▪ 2074 - Asynchronous Communication Adapter (non-PC/AT)			
▪ 2500 - 10MB Fixed Disk (non-PC/AT)			
▪ 2501 - Fixed Disk Adapter (non-PC/AT)			
▪ 2507 - 3278/79 Emulation Adapter			
▪ 2887 - Display Station Emulation Adapter			
▪ 3810 - 5.25in Double-Sided Diskette Drive	4455----	TEMPEST PC/XT System Unit/Display 'TPC2-4' (256KB) w/TEMPESTed keyboard, color display adapter, printer adapter, Dual-Sided Diskette drive, and 10MB Fixed Disk drive	Commercial price
▪ 4900 - Monochrome Display and Printer Adapter			
▪ 4910 - Color/Graphics Monitor Adapter			
▪ 5200 - Printer Adapter (non-PC/AT)			
▪ 6052 - 4700 FCS Output Option (non-PC/AT)			
▪ 6054 - 4700 FCS Security Option (non-PC/AT)			

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MODEL/FC VPA	DESCRIPTION	PRICE
4455----	TEMPEST PC/XT System Unit/Display 'TPC2-5' (256KB) w/TEMPESTed keyboard, color display adapter, printer adapter, Dual-Sided Diskette drive, and 2 5MB Removable Disk drives Commercial price	10853
100A496	Additional 5MB Disk Cartridge Commercial price	243
4455----	TEMPEST PC/XT System Unit/Display 'TPC2-6' (256KB) w/TEMPESTed keyboard, color display adapter, printer adapter, two Dual-Sided Diskette drives Commercial price	8678
	The following are commercial prices for additional TEMPESTed features for the TPC2 models.	
	256KB Memory Expansion	476
	8087 Co-Processor	223
	3278/79 Emulation Adapter (Tempest only)	1825
	Async Communications Adapter (Tempest only)	195
	SDLC Communications Adapter (Tempest only)	314
	2nd Parallel Printer Adapter (Tempest only)	253
	The following TEMPEST systems are composed of a system unit with a TEMPESTed 5272 Color Display. They are NOT AVAILABLE to non-GSA customers.	
4459----	TEMPEST PC/AT System Unit/Display 'TPC4-1A' (512KB) w/TEMPESTed keyboard, EGA, 4451 Mono Display, 360KB Diskette Drive Commercial price	9591
4459----	TEMPEST PC/AT System Unit/Display 'TPC4-1B' (512KB) w/TEMPESTed keyboard, EGA, 4451 Mono Display, 1.2MB Diskette Drive Commercial price	9633
4459----	TEMPEST PC/AT System Unit/Display 'TPC4-2A' (512KB) w/TEMPESTed keyboard, Mono Display/Printer Adapter, 4451 Mono Display, 360KB Diskette Drive Commercial price	9295
4459----	TEMPEST PC/AT System Unit/Display 'TPC4-2B' (512KB) w/TEMPESTed keyboard, Mono Display/Printer Adapter, 4451 Mono Display, 1.2MB Diskette Drive Commercial price	9295
4459----	TEMPEST PC/AT System Unit/Display 'TPC4-3A' (512KB) w/TEMPESTed keyboard, EGA, 4461 Enhanced Color Display, 360KB Diskette Drive Commercial price	11466
4459----	TEMPEST PC/AT System Unit/Display 'TPC4-3B' (512KB) w/TEMPESTed keyboard, EGA, 4461 Enhanced Color Display, 1.2MB Diskette Drive Commercial price	11508
	The following are commercial prices for additional TEMPESTed features for the TPC4 models.	
	20MB Fixed Disk Drive	1095
	1-10MB Internal Removable Cartridge Disk Drive	2088
	2-10MB Internal Removable Cartridge Disk Drives	3600
	Serial/Parallel I/O Adapter	484
	128KB RAM Expansion	350
	512KB RAM Expansion (2 max.)	295
	Militarized Advanced Communication Controller (AdCom 2-M)	1594
	Memory Expansion Option--Graphics	199
	Memory Module--Graphics	259
	80287 Co-Processor	375
	The following TEMPESTed products are available to governmental and commercial customers. The system units DO NOT include a display.	

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MODEL/FC VPA	DESCRIPTION	PRICE
<u>PROCESSORS - INDUSTRIAL VERSIONS</u>		
7531-111 h	IBM PC/AT System Unit (8MHz, 512KB) Hardened, w/Hardened Keyboard, one High-Capacity Diskette drive, 20MB fixed disk drive and adapter	6425
7532-111 h	IBM PC/AT System Unit (8MHz, 512KB) Hardened, 19in rack mountable, w/Hardened Keyboard, one High-Capacity Diskette drive, 20MB fixed disk drive and adapter	6425
6019 h	20MB Fixed Disk Drive (Customer Setup, for model 041)	1695
6045 h	20MB Fixed Disk Drive (Plant Installed, for model 041)	1475
6250 h	20MB Fixed Disk Drive (Additional, for model 111)	1095
6038 h	High Capacity Diskette Drive	275
6039 h	Dual-Sided Diskette Drive	225
6163 h	3.5in 720KB Diskette Drive	170
6001 h	Combination Adapter Cable	75
6020 h	Combination Adapter II, Async adapter, parallel printer adapter, timer, thermal sensor	450
6023 h	Rack Mounting Slides (7532 only)	47
6024 h	Keyboard Mounting Kit (7532 only)	180
6025 h	Display Mounting Kit (7532 only)	350
6040 h	128KB Memory Board (Attaches to Combination Adapter II)	415
6044 h	Display Mounting Parts Kit (7532 only)	4
The 7531 and 7532 also support the following PC/AT options:		
▪	0203 - 512KB Memory Expansion Option	
▪	0209 - 128KB Memory Expansion Option	
▪	0211 - Math Co-Processor Option	
▪	0215 - Serial/Parallel Adapter (and associated cable and connector)	
▪	0220 - Prototype Adapter	
▪	1200 - Enhanced Graphics Adapter	
▪	1201 - Graphics Memory Expansion Card	
▪	1203 - Graphics Memory Module	
▪	1204 - Binary Synchronous Communications Adapter	
▪	1205 - SDLC Communication Adapter	
▪	1206 - PC Cluster Adapter (and cables)	
▪	1502 - Data Acquisition and Control Adapter (and distribution panel)	
▪	1503 - General Purpose Interface Bus Adapter	
▪	4910 - Color/Graphics Monitor Adapter	
7552-040 h	IBM PC/AT System Unit (10MHz, 512KB) Hardened, for use without keyboard or display via Remote Terminal Interface	6770
7552-540 h	IBM PC/AT System Unit (10MHz, 512KB) Hardened, 20MB fixed disk for use without keyboard or display via Remote Terminal Interface	9970
6070 h	80287 Math Co-Processor for 7552	530
6071 h	1.44Mb Diskette Drive for 7552	395
6072 h	Battery for 7552 (Power to system for 10 sec. of operation during power failure, mutually exclusive with FC6073)	180
6073 h	External Voltage Module for 7552 (Mutually exclusive with FC6072)	330
6074 h	Memory Adapter for 7552 (512KB included, accepts up to 3MB via FC6075)	1100
6075 h	512KB Memory Expansion for 7552	250
6076 h	Card Shroud for 7552 (Spare)	110
6077 h	IBM PC Feature Adapter for 7552 (One required for each PC feature card to be installed, mates PC feature to card shroud)	195
6081 h	Diskette Drive for 7552 (720KB, 3.5in)	375
6082 h	10MB Fixed Disk Drive for 7552 (Maximum 2, 1 Standard in 7552-140)	1330
6083 h	20MB Fixed Disk Drive for 7552 (Maximum 2, 1 Standard in 7552-540)	1380
6094 h	Prototype Card for 7552	245
6095 h	Memory Adapter and Card Shroud for 7552 (Combines FC6074, FC6076)	1210
6096 h	Filters for 7552	35
6097 h	Keyboard Rack Mount Hardware for 7552	680
6098 h	Floor Mount Kit for 7552	600
6180 h	Disk/Diskette Module II for 7552	1740
6186 h	IBM 7552 Maintenance Manual Supplement	65
6187 h	IBM 7552 Advanced Diagnostics for #1220 and #1221	165
6192 h	Floor Mount Kit without Keyboard for 7552	505
6193 h	Keyboard Rack Mount Kit without Keyboard for 7552	430
6078 h	Remote Terminal Interface for 7552 (Via program 5601-053, allows remote Industrial Computer to provide terminal and program load functions thru keyboard port)	500
6221 h	SPECIFY CODE, FC6078 installed in a 5531	N/C

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MODEL/FC VPA	DESCRIPTION	PRICE
6222 h	SPECIFY CODE, FC6078 installed in a 7531 or 7532	N/C
6223 h	SPECIFY CODE, FC6078 installed in a 7552	N/C

The 7552 also supports the following PC/AT options, via feature 6077 (the PC Adapter):

- 0215 - Serial/Parallel Adapter (and associated cable and connector)
- 1200 - Enhanced Graphics Adapter
- 1201 - Graphics Memory Expansion Card
- 1203 - Graphics Memory Module
- 1204 - Binary Synchronous Communications Adapter
- 1205 - SDLC Communication Adapter
- 1502 - Data Acquisition and Control Adapter (and distribution panel)
- 1503 - General Purpose Interface Bus Adapter
- 3390 - IBM Token-Ring Network PC Adapter (and cable)
- 5063 - IBM Token-Ring Network PC Adapter II
- 6050/6160 - Real Time Interface Co-Processor (ARTIC, and support cards)

The following displays are also supported:

- 5532 - Industrial Color Display
- 7534 - Industrial Graphics Display

5531-011 h	IBM PC/XT System Unit (256KB) Hardened, w/Hardened Keyboard, one Dual-Sided Diskette drive, and Serial / Parallel / Clock Card	2975
6000 h	Combination Adapter	445
6001 h	Combination Adapter Cable	75
6002 h	Keylock Option Kit	10
6017 h	10MB Fixed Disk Drive, Adapter, and Cable (Factory Installed)	1355
6018 h	10MB Fixed Disk Drive, Adapter, and Cable (Customer Setup)	1520

Also supports the following PC options:

- 1002 - Math Co-Processor Option
- 1003 - 64KB Memory Module Kit
- 1013 - 64/256KB Memory Expansion Option
- 1200 - Enhanced Graphics Adapter
- 1201 - Graphics Memory Expansion Card
- 1203 - Graphics Memory Module
- 1204 - Binary Synchronous Communications Adapter
- 1205 - SDLC Communication Adapter
- 1206 - PC Cluster Adapter (and cables)
- 1502 - Data Acquisition and Control Adapter (and distribution panel)
- 1503 - General Purpose Interface Bus Adapter
- 1509 - PC/XT/370 Option Kit
- 2074 - Asynchronous Communication Adapter

- 2507 - 3278/79 Emulation Adapter
- 2879 - Enhanced Display Station Emulation Adapter (and cable)
- 2880 - Enhanced 5250 Emulation Installation Convenience Kit
- 3810 - 5.25in Double-Sided Diskette Drive
- 4910 - Color/Graphics Monitor Adapter

5532----	i Industrial Color Display	850
7534-001	i Enhanced Industrial Color Display (Ruggedized version of 5154, req. FC1200)	1175
6034	Installation and Operation Guide, 7534	10
6026	Shaded Screen Cover for 7534	83
6027	Optically Coated Glass Cover for 7534	99
7544-001	i Industrial Graphics Display - 110 V (Ruggedized version of VGA display, req. FC6257 or 6260) (Provides 640x480 resolution)	1560
7544-002	i Industrial Graphics Display - 220 V (Ruggedized version of VGA display, req. FC6257 or 6260) (Provides 640x480 resolution)	1560
6257	i VGA Display Adapter for 7531/7532	595
6260	i VGA Display Adapter for 7552	595
6025	i Rack Mounting Accessory for 7544	350

IBM INDUSTRIAL COMPUTER SUPPORT PUBLICATIONS

6251	7531 Operator's Guide	50
6252	7532 Operator's Guide	50
6046	Guide to Operations - Industrial PC/AT (7531-041)	50
6036	Guide to Operations - Industrial PC/AT (7532-041) Rack mount)	50
6032	Technical Reference Manual - Industrial PC/AT (7531-041)	65
6035	Technical Reference Options and Adapters - Industrial PC/AT (7531-041)	295
6256	Technical Reference Manual - Industrial PC/AT (Model 111)	65
6047	Installation and Setup - Industrial PC/AT (7531-041)	30
6037	Installation and Setup - Industrial PC/AT (7532-041, Rack mount)	30
6253	Installation and Setup - Industrial PC/AT (7531-111)	30
6254	Installation and Setup - Industrial PC/AT (7532-111)	30

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MODEL/FC VPA	DESCRIPTION	PRICE
6255	Maintenance Information Manual for the IBM Industrial PC/AT (Model 111)	295
6033	Hardware Maintenance & Service (Manual and Advanced Diagnostic Diskette) for the IBM Industrial PC/AT (7531-041)	295
6089	Installation and Operations - 7552 Industrial Computer	150
6086	Hardware Maintenance & Service (Manual and Advanced Diagnostic Diskette) for the IBM 7552 Industrial Computer	245
6006	Guide to Operations - Industrial PC/XT	55
6003	Technical Reference Manual - Industrial PC/XT	75
6035	Technical Reference Options and Adapters - Industrial PC/XT	295
6029	Installation and Setup - Industrial PC/XT	30
6004	Hardware Maintenance & Service (Manual and Advanced Diagnostic Diskette) for the IBM Industrial PC	155
SC28-8055	7544 Installation and Operations	25
SC28-8100	7531/32 Supplement for Display Attachment (#6258)	19
SC28-8212	7552 Supplement for Display Attachment (#6261)	25

PROCESSORS - PC CONVERTIBLE

The Enhanced LCD Display is standard on all PC Convertibles shipped beginning January 26, 1987.

5140-002 a	IBM PC Convertible (256KB) w/Integrated 78-Key Keyboard, Enhanced LCD Screen, two 3.5in Diskette Drives, 80C88 Processor, AC Adapter, Battery Pack, Applications, Diagnostics, Guide to Ops.	1395
5140-022 a	IBM PC Convertible (256KB) w/Integrated 78-Key Keyboard, Enhanced LCD Screen, two 3.5in Diskette Drives, 80C88 Processor, AC Adapter, Battery Pack, Diagnostics, Guide to Ops.	1375
5140-003 a	IBM PC Convertible (256KB) w/Integrated 78-Key Keyboard, Backlit LCD Screen, two 3.5in Diskette Drives, 80C88 Processor, AC Adapter, Battery Pack, Diagnostics, Guide to Ops.	1695

2682799	Backlit LCD Option Kit (new display, power supply to convert model 2 or 22 to backlit LCD)	350
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In addition to the options listed below, the PC Convertible supports:

- 4201 - IBM Proprinter
- 4863 - IBM PCjr Color Display
- 5152 - IBM Graphics Printer
- 5153 - IBM PC Color Display
- 5841 - IBM 1200bps Modem
- 0020 - PCjr Connector for TV
- 0021 - PCjr Adapter Cable for PC Color Display
- 2067 - Communications Adapter Cable
- 5612 - Parallel Printer Cable

6010 a	Enhanced LCD Display (retrofit, standard in all Convertibles shipped after from January 26, 1987 onward)	250
6030 a	256KB Memory Card (maximum 2 installable)	345
4005 a	128KB Memory Card (maximum 2 installable)	160
4010 a	Printer, attaches to back of system unit, 40CPS serial thermal or thermal transfer, sheet or roll paper	295
4055 a	Printer Cable, 22in, allows detached connection with FC4010	45
4015 a	Serial/Parallel Adapter, attaches to back of system unit	80
4026 a	Enhanced Internal Modem, 300 and 1200 baud, 'AT' and IBM command set, mounts in system unit	450
4025 a	Internal Modem, 300 and 1200 baud, IBM command set, mounts in system unit	225
4020 a	GRT Display Adapter, attaches to back of system unit, connects 4683, 5144, 5145, or 5153, or TV set (AC only)	255
5144-001 b	PC Convertible Monochrome Display (9in diagonal, 2 color, 640H x 200V resolution, 80 character x 25 line, .13 megapel, 8x8 character cell, AC only)	180
5145-001 b	PC Convertible Color Display (13in diagonal, 320H x 200V resolution, .06 megapel, speaker, AC only)	400
4040 a	IBM PC Convertible Speech Adapter	495
59X9966	Speech Adapter Installation and Problem Determination Procedures, Guide to Writing BASIC Speech Programs	??

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MODEL/FC VPA	DESCRIPTION	PRICE				
4060 a	Battery Charger (trickle charger, not for concurrent operation)	25		0008	PCjr Internal Modem	103
4065 a	Automobile Power Adapter	25				
4090 a	Carrying Case, Standard (soft-sided, accomodates system unit, attached printer, accessories, supplies)	84		0009	PCjr Parallel Printer Attachment	103
4095 a	Carrying Case, Compact (soft-sided, system unit in main compartment, printer and accessories in expandable pocket)	44		0010	PCjr Attachable Joy Stick	20
				0012	PCjr Keyboard Cord	13
				0013	PCjr Cordless Keyboard Overlays (Set of 5)	10
				0020	PCjr Connector for TV (also for PC Convertible)	10
				0021	PCjr Adapter Cable for Color Display (also for PC Convertible)	20
4075 a	Guide to Operations Manual - IBM PC Convertible (incl. Setup, Diagnostics, System Applications) (order via PCTB)	65		0022	PCjr Adapter Cable for Cassette	10
4076 a	Guide to Operations Manual - IBM PC Convertible (incl. Diagnostics only)	50		0023	PCjr Carrying Case	26
4080 a	Technical Reference Manual - IBM PC Convertible (order via PCTB)	75		0024	PCjr Speech Attachment	73
4082 a	Technical Reference Manual Update #2 for Enhanced LCD, 256KB Memory Card, Enhanced Internal Modem	5.20		0026	PCjr Adapter Cable for Serial Devices	10
4085 a	Hardware Maintenance and Service Manual - IBM PC Convertible (order via PCTB)	150		0031	128KB Memory Expansion Attachment	225
4088 a	Hardware Maintenance and Service Update #3 for Enhanced LCD, 256KB Memory Card, Enhanced Internal Modem	3.05				
SN20-9845	Hardware Maintenance and Service Update for Backlit LCD	??				

PC CONVERTIBLE SUPPORT PUBLICATIONS

PCJR SUPPORT PUBLICATIONS

IBM PORTABLE PC SUPPORT PUBLICATIONS

PROCESSORS AND OPTIONS - PCJR

PROCESSOR FEATURES

	4860-004	PCjr System Unit/Keyboard, 64KB, 2 Cartridge Slots, Transformer	379		1002 a	Math Co-Processor Option (8087 - 8088 chips), PC, PC/XT	131
	4860-067	PCjr System Unit/Keyboard, 128KB, 2 Cartridge Slots, Transformer, 360KB Diskette Drive	460		5001 a	Math Co-Processor Option (8087 chip), Personal System/2 Model 30	324
	4863-001	IBM PCjr Color Display (13in Diagonal) (16 color, 320H x 200V resolution)	359		0211 a	Math Co-Processor (80287 chip), PC/AT	393
	0005	360KB PCjr Diskette Drive	178		3047	AST I/O Plus II Card (Serial Port, Clock) (special bid only)	185
	0006	Power Expansion Attachment	103		3048	AST I/O-S Plus II Card (2 Serial Ports, Clock) (special bid only)	235
	0007	64KB Memory and Display Expansion	146				

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MODEL/FC VPA	DESCRIPTION	PRICE
3049	AST I/O-P Plus II Card (Serial Port, Parallel Port, Clock) (special bid only)	235
3050	AST I/O-SP Plus II Card (2 Serial Ports, Parallel Port, Clock) (special bid only)	285
3100	AST I/O Mini Board I/OM 1 (Serial Port, Clock) (special bid only)	185
3102	AST I/O Mini Board I/OM 2 (2 Serial Ports, Clock) (special bid only)	235
3101	AST I/O Mini Board I/OM-P (Serial Port, Parallel Port, Clock) (special bid only)	235
3103	AST I/O Mini Board I/OM-SP (2 Serial Ports, Parallel Port, Clock) (special bid only)	285
0215 a	Serial/Parallel Adapter (9-pin Async + Printer), PC/AT, Note--requires either Serial Adapter Cable (FC 0217) or Serial Adapter Connector (FC 0242) to attach to RS-232 devices	157
1400 a	Prototype Card, PC, PC/XT	16
0220 a	Prototype Adapter, PC/AT	36
1300 a	Game Control Adapter	47

3336 a	128KB Memory Module Kit (for installation on 640KB-class PC/XT system boards only)	38
3337 a	256KB Memory Module Kit (for installation on 640KB-class PC/XT system boards only)	36
3057	AST RAMpage! Expanded Memory Board (256KB) (special bid only)	395
3058	AST RAMpage! Expanded Memory Board (512KB) (special bid only)	495
3059	AST RAMpage! Expanded Memory Board (1MB) (special bid only)	795
3060	AST RAMpage! Expanded Memory Board (2MB) (special bid only)	1295
3061	AST RAMpage! I/O Expanded Memory Board (256KB) Incl. Serial and Parallel Adapters (special bid only)	545
3062	AST RAMpage! I/O Expanded Memory Board (512KB) Incl. Serial and Parallel Adapters (special bid only)	645
3063	AST RAMpage! I/O Expanded Memory Board (1MB) Incl. Serial and Parallel Adapters (special bid only)	945
3064	AST RAMpage! I/O Expanded Memory Board (2MB) Incl. Serial and Parallel Adapters (special bid only)	1445

MEMORY - PC AND PC/XT SYSTEM UNITS

3905 a	IBM 2MB Expanded Memory Adapter (XMA) for 5160, 5170, and 8530, not for XT/286, supported by IBM 3270 Workstation Program as XMA, EMS, and VDISK, incl. printer adapter	1355
SA23-1033	Technical Reference Manual, 2MB Expanded Memory Adapter (XMA)	8.75
SA23-1031	Hardware Maintenance Service Update, 2MB Expanded Memory Adapter (XMA)	53.75
The cards listed below are NOT for installation in PC/AT's, PC/XT 286's, or PC/AT-based system units.		
1001 a	16KB Memory Expansion Option, PC, PC/XT	31
1003 a	64KB Memory Module Kit, PC, PC/XT	20
1013 a	64/256KB Memory Expansion Option, PC, PC/XT	93
1209 a	IBM 256KB Memory Expansion Option (short card), PC, PC/XT	104

MEMORY, PC/AT AND PC/XT286 SYSTEM UNITS

For Expanded Memory Adapter (XMA) see also FC 3905, the IBM 2MB Expanded Memory Adapter (PC/XT286 not supported)		
The following cards are NOT for installation in other than PC/AT, PC/XT 286, or PC/AT-based system units.		
0202 a	256KB Memory Module Kit, PC/AT	78
3338 a	128/640KB Memory Expansion Option, PC/AT (128KB at 512KB location, 512KB at 1MB location, XT/286 not supported)	366
3343 a	512KB/2MB Memory Expansion Option, PC/AT (only above 1MB, XT/286 is supported)	497
3339 a	512KB Memory Module Kit, PC/AT (for use with FC3338 and FC3343)	172

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MODEL/FC VPA	DESCRIPTION	PRICE			
3397 a	512KB Memory Module Kit (2-256KB modules, for use with FC 3395 or FC 8635 or FC 3619) PC/AT	215	3032	AST Advantage! 512 Multifunction Board (512KB, Serial Port, Parallel Port) (special bid only)	645
8635 a	IBM Enhanced Memory Expansion Adapter, multifunction, includes Serial/Parallel Adapter function, up to 12.2MB memory (with Guide to Operations),(supports split addressing) (Above Disc EMS emulation software)	495	3033	AST Advantage! 512-S Multifunction Board (512KB, 2 Serial Ports, Parallel Port) (special bid only)	695
3619 a	Multifunction Memory Expansion Adapter, includes Serial/Parallel Adapter function, up to 12.2MB memory (with Guide to Operations), (supports split addressing)	445	3034	AST Advantage! 1125 Multifunction Board (1125KB, Serial Port, Parallel Port) (special bid only)	945
7833 a	2MB Memory Module Kit (2-1024KB modules, for use with FC 8635 and 3619), PC/AT	995	3035	AST Advantage! 1125-S Multifunction Board (1125KB, 2 Serial Ports, Parallel Port) (special bid only)	995
3404	Guide to Operations, .5 to 3MB Memory Expansion Adapter, and .5 to 6MB Memory Expansion Adapter, PC/AT	20	3038	AST Advantage! 3000 Multifunction Board (3MB, Serial Port, Parallel Port) (special bid only)	1945
3408	Technical Reference Manual, .5 to 3MB Memory Expansion Adapter, and .5 to 6MB Memory Expansion Adapter, PC/AT	25	3039	AST Advantage! 3000-S Multifunction Board (3MB, 2 Serial Ports, Parallel Port) (special bid only)	1995
3406	Hardware Maintenance and Service, .5 to 3MB Memory Expansion Adapter, and .5 to 6MB Memory Expansion Adapter, PC/AT	50	3052	AST RAMvantage! Extended Memory Board (128KB) (special bid only)	345
G570-2237	Guide to Operations, Enhanced Memory Expansion Adapter, PC/AT	??	3053	AST RAMvantage! Extended Memory Board (512KB) (special bid only)	445
G570-2240	Technical Reference Manual, Enhanced Memory Expansion Adapter, PC/AT	??	3054	AST RAMvantage! Extended Memory Board (1MB) (special bid only)	745
G570-2239	Hardware Maintenance and Service, Enhanced Memory Expansion Adapter, PC/AT	??	3056	AST RAMvantage! Extended Memory Board (3MB) (special bid only)	1545
7853	Tecmar Maestro-1664K (on 1596-D01) with 1664K Memory, Serial Port, Parallel Port, Security Option, Software	2876	<u>DIRECT-ACCESS STORAGE DEVICES</u>		
7854	Tecmar Maestro-2560K (on 1596-D01) with 2560K Memory, Serial Port, Parallel Port, Security Option, Software	4589	3325 a	5.25in Half-Height Dual-Sided Diskette Drive (360KB), PC/XT	225
3030	AST Advantage! 128 Multifunction Board (128KB, Serial Port, Parallel Port) (special bid only)	595	3258 a	3.5in Half-Height Dual-Sided Diskette Drive (720KB), PC/XT	115
3031	AST Advantage! 128-S Multifunction Board (128KB, 2 Serial Ports, Parallel Port) (special bid only)	645	4865-001 b	External Diskette Drive, 3.5in for PC, PC/XT, Portable (720KB) Driven by std. diskette adapter, Inc. Guide to Operations	395
			4865-002 b	External Diskette Drive, 3.5in, for PC/AT Inc. Guide to Operations	465
			8750 a	Personal System/2 5.25in External Diskette Drive Adapter/A for attaching 4869-1 to Personal System/2 Model 30	70
			3326 a	20MB Fixed Disk, PC/XT	630
			3327 a	20MB Fixed Disk Adapter, PC/XT	200
			3363-A01 b	External Optical Disk Drive (200MB, removable media, write once) Not for use over LAN (attaches to PC, PC/XT, PC/AT, 8530)	2950

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MODEL/FC VPA	DESCRIPTION	PRICE
0206 a	High Capacity (1.2MB) Diskette Drive, PC/AT	288
0207 a	Dual-sided Diskette Drive (360KB), PC/AT	260
0357 a	Internal Diskette Drive, 3.5in for 8MHz PC/AT and PC/XT 286 (720KB), not supported as drive A or with 4865-2	178
0210 a	30MB Fixed Disk Drive, PC/AT	1795
0468 a	Upgrade PC/AT BIOS, add 30MB drive	1880
<u>TAPE BACKUP DEVICES</u>		
4156 a	6157 Tape Attachment Adapter, PC	366
6334 A	SY-TOS/IBM 6157 Tape Utilities V.3.0 (backup/restore, library utilities driving 6157) (Program Package) (DOS and OS/2) (11/14/89)	150
0842 A	SY-TOS/IBM 6157 Tape Utilities V.2.0 (backup/restore, library utilities driving 6157 from 8530, 8550, 8560, 8580)	100
0955 A	SY-TOS/IBM 6157 Tape Utilities V.1.0 (backup/restore, library utilities driving 6157 from PC, XT, AT, 3270-PC)	70
6714	Tallgrass TG-1020i Tape Backup (special bid only)	895
6727	Irwin Model 145 Tape Backup for PC/AT	795
<u>A REALTIME INTERFACE CO-PROCESSOR (ARTIC)</u>		
	See the section on Industrial Software for listings of software supporting ARTIC.	
	The ARTIC Multiport card features four or eight ports with 19.2kbps async and 38.4kbps HDLC/SDLC. All eight ports may run at 9.6kbps concurrently.	
6240 a	A RealTime Interface Co-Processor (ARTIC) Multiport adapter, 4 ports, 128KB, Control Program on 5.25in diskette	1110
6241 a	A RealTime Interface Co-Processor (ARTIC) Multiport adapter, 4 ports, 128KB, Control Program on 3.5in diskette	1110
6242 a	512KB Memory Expansion for ARTIC Multiport, replaces base 128KB with 512KB	298
6243 a	Four Port RS-422 Addition for ARTIC Multiport, adds 4 RS-422 Ports to the ARTIC Multiport	230
6245 a	Four-Port Expansion for ARTIC Multiport, provides 4 additional RS-232/V.24 ports	188
6246 a	EIA RS-232 Multiport Interface Cable for ARTIC Multiport or ARTIC Multiport/2, 1 78-pin connector to 8 25-pin connectors)	220
6263 a	IBM RealTime Interface Co-Processor (ARTIC) Multiport/2 adapter, Intel 80186 microprocessor with 512KB memory, microcode on 5.25-in or 3.5-in diskettes (for 8550, 8560 and 8580 system units)	1025
6267 a	Four Port RS-232 Interface Board for ARCTIC Multiport/2 adapter, provides 4 RS-232/V.24 ports (attaches to Co-Processor card, 78-pin connector included)	246
6265 a	Eight Port RS-232 Interface Board for ARCTIC Multiport/2 adapter, provides 8 RS-232/V.24 ports (attaches to Co-Processor card, 78-pin connector included)	324
6266 a	RS-232/RS-422 Interface Board for ARCTIC Multiport/2 adapter, provides 4 RS-232/V.24 and 4 RS-422 ports (attaches to Co-Processor card, 78-pin connector included)	351
6058 a	IBM Realtime Interface Co-Processor (ARTIC) Multiport, Technical Reference	413
6059 a	IBM Realtime Interface Co-Processor (ARTIC) Multiport, Hardware Maintenance and Service	104
6248 a	IBM Realtime Interface Co-Processor (ARTIC) Multiport/2, Hardware Maintenance and Service	172
	The ARTIC card features two serial ports with a max speed of 64kbps on one, 19.2kbps on the other. Max of 2 interface cards per ARTIC.	

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MODEL/FC VPA	DESCRIPTION	PRICE
6050 a	A RealTime Interface Co-Processor (ARTIC) driver card for multiple industrial programmable controllers, 128KB, Control Program on 5.25in diskette	1050
6165 a	A RealTime Interface Co-Processor (ARTIC) driver card for multiple industrial programmable controllers, 128KB, Control Program on 3.5in diskette (5160, 5170 only)	1045
6160 a	A RealTime Interface Co-Processor (ARTIC) driver card for multiple industrial programmable controllers, 512KB, Control Program on 5.25in diskette	1295
6166 a	A RealTime Interface Co-Processor (ARTIC) driver card for multiple industrial programmable controllers, 512KB, Control Program on 3.5in diskette (5160, 5170 only)	1295
6051 a	EIA RS-232C/CCITT V.24 Interface Board for ARTIC	115
6064 a	EIA RS-422A Interface Board for ARTIC	178
6053 a	CCITT V.35 Interface Board for ARTIC	220
6066 a	20mA Current Loop Interface Board for ARTIC	167
6055 a	128KB Memory Expansion for ARTIC (for FC6050 and 6165 only)	100
6161 a	512KB Memory Expansion for ARTIC (for FC6160 and 6166 only)	298
6056 a	RS-232C Direct Attach Interface Cable, 2m, for ARTIC	100
6057 a	RS-232C Modem Attach Interface Cable, 2m, for ARITC	120
6061 a	CCITT V.35 Interface Cable, 2m, for ARTIC	209
6058 a	Technical Reference Manual, ARTIC	185
6059 a	Hardware Maintenance and Service Manual, ARTIC	104
6323	X.35 Cable Option for IBM X.25 Interface Co-Processor/2 (12/30/88)	185
S16F-1879	IBM X.25 Interface Co-Processor/2 Technical Reference (12/30/88)	137
S16F-1874	IBM X.25 Interface Co-Processor/2 Hardware Maintenance and Service (12/30/88)	37
6247	IBM Realtime Interface Co-Processor Multiport/2 (provides increased capacity of 1Mb) (only for PS/2 Models 50, 60, 70 or 80) (10/28/88)	1395
SC28-8214	IBM Realtime Interface Co-Processor/2 Technical Reference (10/28/88)	??
SC28-8006	IBM Realtime Interface Co-Processor/2 Hardware Maintenance and Service (10/28/88)	??
1503 a	IBM PC General Purpose Interface Bus (14-device IEEE-488, 300KB DMA rate) (Use FC 3907, which includes a cable, to order the IEEE-488 Adapter for 5371 models.)	309
4201 A	IBM PC General Purpose Interface Bus (IEEE-488) Programming Support	89
<u>DATA ACQUISITION/CONTROL ADAPTER</u>		
See also Labtech Notebook, FC 9586.		
1502 a	IBM PC Data Acquisition/Control Adapter (4-A/D @ 15k/sec, 2-D/A @ 25k/sec, both 12-bit, 16-channel digital TTL I+O @ 25k/sec)	1020
1504 a	IBM PC Data Acquisition/Control Distribution Panel	199
4202 A	IBM PC Data Acquisition/Control Adapter Programming Support	175
See also Labtech Notebook, FC 9586, for additional DACA support		
<u>GENERAL PURPOSE INTERFACE BUS ADAPTER</u>		
6401	IBM X.25 Interface Co-Processor/2 (supports full-duplex, synchronous or asynchronous X.21, X.21 bis V.24 or X.21 bis V.35 interface) (only for PS/2 Models 50, 60, 70 or 80) (12/30/88)	1195
6321	X.21 Cable Option for IBM X.25 Interface Co-Processor/2 (12/30/88)	100
6322	X.24 Cable Option for IBM X.25 Interface Co-Processor/2 (12/30/88)	100
<u>KEYBOARDS</u>		
6279940	Keyboard Template (3, for Enhanced Keyboard)	4.95
6341707	Clear Keycaps (60, with paper inserts, for Enhanced Keyboard)	50
6341704	Paper Inserts for Clear Keycaps (300)	30
1351710	Blank Light Keycaps (60, for Enhanced Keyboard)	25
1351728	Blank Dark Keycaps (60, for Enhanced Keyboard)	25

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MODEL/FC VPA	DESCRIPTION	PRICE			
1351717	Keycap Removal Tool (6, for Enhanced Keyboard)	11	S68X-2216	Hardware Maintenance and Service Update - Personal System/2 Display Adapter	30
<u>MISCELLANEOUS</u>			S68X-2238	Hardware Maintenance Reference Update - Personal System/2 Display Adapter	6
6011 a	IBM PC Music Feature (336 voices available, 8 played simultaneously)	513	4055-001 b	IBM InfoWindow Display (13in Diagonal, dual frequency RGB/NTSC, 64 color, 640H x 200/350V resolution, .22 Megapixel, overlay live video, speakers, synthetic speech, touch sensitive, videodisk attach)	4195
SA23-1035	Technical Reference Supplement, PC Music Feature	??	GX27-3671	IBM InfoWindow Guide to Operations	N/C
SA23-1029	Hardware Maintenance and Service Supplement, PC Music Feature	??	SK2T-0297	InfoWindow Guide to Operations	??
9103	Microsoft Mouse BUS 1.0 (with Paintbrush and Mouse Menus)	150	SX27-3665	IBM InfoWindow Hardware Maintenance and Service	??
5083-11A g	Graphics Tablet (CursorPad, 6.14in x 6.14in)	385	SK2T-0296	IBM InfoWindow Hardware Maintenance and Service	??
5083-12A g	Graphics Tablet (11.5in x 11.5in)	535	LK2T-0295	IBM InfoWindow Programmer's Guide	??
1511	Cursor (Crosshair Mouse or 'Puck')	150	8575140	InfoWindow Tilt/Swivel Display Base	70
6351	Stylus	100	6952300	InfoWindow Power Cord, 9-foot (standard cord is 6-foot)	10
4010	Cable to attach RT PC to 5083 Tablets (2.50m)	60	5040 e	IEEE-488 Cable for InfoWindow	106
4020	Cable to attach PC or PC/XT (5150, 5160) to 5083 Tablets (1.83m)	40	5240 a	InfoWindow Enhanced Graphics Adapter (IEGA) for use with 8530 and InfoWindow	757
4025	Cable to attach PC/AT or PC/XT 286 (5170, 5162) to 5083 Tablets (1.83m)	40	6583 a	Enhanced Graphics Adapter Jumper Card (connects EGA to GPIB card for control by InfoWindow)	41
4050	5083 Power Supply for 5150, 5160, 5162, 5170 to 5083-11A, -12A attaches tablet to PC, XT, AT, req. async. adapter plus appropriate cable above	68	SX27-3756	EGA Jumper Card Hardware Maintenance and Service Manual	??
8654210	Bracket Kit (narrower card brackets for PC/XT)	3.95	4239	InfoWindow Display Attachment Kit for use with 8550 and 8560 and InfoWindow	1100
3177	IBM PC Keylock Feature for PC, PX/XT	52	5040	IBM GPIB Cable	102
0218 a	Floor-Standing Enclosure, PC/AT	172	2422	InfoWindow Hardware Upgrade Kit (ROM module upgrades ROM level of InfoWindow Display for InfoWindow Control Program Versions 1.2 and 1.3)	15
1585-S01	Topaz Powermaker Micro Uninterrupted Power System Model 84126-57	1185	5151-001 b	IBM Monochrome Display (11.5in Diagonal) (2 color, 80 character x 25 line, 720H x 350V resolution, .25 Megapixel, 9x14 character cell)	275
<u>DISPLAYS AND ATTACHMENTS, PC</u>			4900 a	IBM Monochrome Display and Printer Adapter (Supports 5151)	262
4050 a	IBM Display Adapter (Personal System/2 Display Adapter) for PC, PC/XT, PC/AT, and 8530 (Supports 8503, 8512, 8513, 8514 with 640x480x16 color through 320x200x256 color graphics, also grey scale)	623	3051	Preview! Monochrome Graphics Card (special bid only)	399
			4910 a	IBM Color/Graphics Monitor Adapter (Supports 5153 with 640x200x2 color through 160x200x8 color graphics)	255

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MODEL/FC VPA	DESCRIPTION	PRICE
3043	Hercules Color Card, incl. parallel port, light pen interface (special bid only)	245
5154-001 b	IBM Enhanced Color Display (13in Diagonal) (64 color, 80 character x 25 line, 640H x 350V resolution, .22 Megapel, 8x14 character cell)	350
1200 a	IBM Enhanced Graphics Adapter (64KB) Supports 5151, 5153, 5154 w/640x350x4-color on 5154 and 256-character loadable set, character cell size programmable to 8H x 32V	277
1201 a	Memory Expansion Card (64KB) for Enhanced Graphics Adapter Supports 640x350x16 color on 5154 and 512-character loadable set	208
1203 a	IBM Graphics Memory Module (128KB) for Enhanced Graphics Adapter Memory Card Adds smooth scroll, pan, graphics pages, 1024-character loadable set	271
3295-001 b	Plasma Monitor (19in Diagonal) (2 color, 104-160 character x 46-64 line, 960H x 768V resolution, .74 Megapel, 6x12 - 9x16 character cell) (W/D 10/21/88)	3695
3001 b	Optional 5-meter cable for 3295 (W/D 10/21/88)	95
3025 a	3295 (Plasma Display) Adapter (incl. Guide to Operations) (W/D 10/21/88)	1565
GA23-0237	IBM PC Information Panel (3295) Guide to Operations (incl. Enhanced Control Programming Interface Support diskette) (W/D 10/21/88)	N/C
SA23-0207	IBM PC Information Panel (3295) Programming Guide and Reference (W/D 10/21/88)	51.50
SY27-2575	IBM PC Information Panel (3295) Hardware Maintenance and Service (W/D 10/21/88)	50
7801	Emulex/Persyst BoB/MG Monochrome/Color Graphics Board (4 color or grey levels, 80 character x 25 line, 640H x 400V max. resolution, 8X8/9x14 character cell)	249
1556-S01	Amdek Video 310A (amber phosphor) (special bid only)	230
0216 a	Display Stand (Tilt/Swivel)	72

PRINTER ATTACHMENTS, PC

GENERAL

5200 a	Printer Adapter (for 5152, 4201, etc.)	18
1537-A01	Hayes Transet 1000 Multifunction Buffer (128KB print buffer) (special bid only)	399
1537-B01	Hayes Transet 1000 Multifunction Buffer (512KB print buffer) (special bid only)	399
7501	PC, PX/XT Accessory Kit for Hayes Transet (special bid only)	40
7502	PC/AT Accessory Kit for Hayes Transet (special bid only)	40
7503	Cable, S1 Port to PC, PX/XT (serial) for Hayes Transet (special bid only)	33
7504	Cable, S1 Port to printer (serial) for Hayes Transet (special bid only)	33
7505	Cable, P1 Port to printer (serial) for Hayes Transet (special bid only)	33
7506	Cable, P1 Port to printer (parallel) for Hayes Transet (special bid only)	33
7507	Cable, S1 Port to modem for Hayes Transet (special bid only)	33
7508	Cable, S2 Port to PC/AT for Hayes Transet (special bid only)	33
1581-A01	Giltronix Serial Peripheral Sharing Device, Model 8007 (Shares serial printer among up to 8 PCs, req. male-male serial attach cable PN 6343332, and serial cables to PCs)	695

IMAGE DEVICE ATTACHMENT, PC

4925 a	3117 PC Adapter (connects 3117, PC family, req. cable FC3005)	251
3005 a	3117-PC Cable	65
GA18-2477	3117 Scanner and PC Adapter Guide to Operations	53.75
GK2T-0954	Supplement of 3117 Adapter Guide to Operations	15.75
SK2T-0956	Supplement of 3117 Adapter, Hardware Maintenance and Service	15.75

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MODEL/FC VPA	DESCRIPTION	PRICE			PRICE
4920 a	High-Speed Adapter (connects 3118, or 3117 with Expansion Unit to PC family at 1mbps RS422, req. serial communications cable FC 2067)	309	SC18-2117	High Speed Adapter Technical Reference	19
			SY18-2167	High Speed Adapter Hardware Maintenance and Service	26.25
GA18-2476	Guide to Operations - High Speed Adapter	25.50	SK2T-0955	Supplement of High Speed Adapter, Guide to Operations and Hardware Maintenance and Service	15.75

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MODEL/FC VPA	DESCRIPTION	PRICE
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COMMUNICATIONS HARDWARE AND SOFTWARE

GENERAL

2067 a	Communications Adapter Cable (ASC/BSC/SDLC) (not for use with PC/AT Serial/Parallel Adapter)	68
0217 a	Serial Adapter Cable (10-foot long cable), PC/AT	68
0242 a	Serial Adapter Connector (10in long cable), PC/AT	36
5841-001	IBM 75-1200bps Synchronous-Asynchronous Modem (Separate VPA)	609
5842-001	IBM 75-2400bps Synchronous-Asynchronous Modem (Separate VPA)	W/D
5853-001	IBM 0-2400bps Synchronous-Asynchronous Modem (Separate VPA)	690
GA27-3738	Guide to Operations, 5842 Modem	25
	The IBM 3270 Workstation Program supports 3270 emulation via 3X74 coax (V.1.0) or Token-Ring LAN (V.1.1), with memory expansion via XMA, including EMS emulation.	
	The IBM 3270 Workstation Program supports the 8503, 8512, 8513, 8514, 5272, 5151, and 5154 displays. It is not supported on the XT/286.	
0837 A	IBM 3270 Workstation Program V.1.1, Warranted, Central Service to 12/23/88 ** (Support for 9370/Token Ring Access and PS/2 Mouse) (5.25in+3.5in)	495

0652 A	IBM 3270 Workstation Program V.1.1 (Additional License)	395
0823 B	IBM 3270 Workstation Program V.1.1 (Documentation Only)	55
0833 B	PC 3270 Emulation Program V.2 or V.3 or 3270-PC Control Program V.1.22, 2.1, 3.0 to IBM 3270 Workstation Program V.1.1 (Upgrade) (W/D 9/30/88)	300
0832 B	PC 3270 Emulation Program, Entry V.1.0, V.1.1 or V.1.2. to IBM 3270 Workstation Program V.1.1 (Upgrade) (W/D 9/30/88)	325
0834 B	IBM 3270 Workstation Program V.1.0 to IBM 3270 Workstation Program V.1.1 (Upgrade) (W/D 9/30/88)	125
0658 B	PC 3270 Emulation Program V.2 or V.3 or 3270-PC Control Program V.1.22, 2.1, 3.0 to IBM 3270 Workstation Program V.1.1 (Additional License Upgrade) (W/D 9/30/88)	225
0657 B	PC 3270 Emulation Program, Entry V.1.0, V.1.1 or V.1.2. to IBM 3270 Workstation Program V.1.1 (Additional License Upgrade) (W/D 9/30/88)	245
0656 B	IBM 3270 Workstation Program V.1.0 to IBM 3270 Workstation Program V.1.1 (Additional License Upgrade) (W/D 9/30/88)	90
0651 A	ADDITIONAL LICENSE, IBM 3270 Workstation Program V.1.0, Warranted, Central Service to 9/87 ** (W/D 3/15/89)	395
SA23-0343	IBM 3270 Workstation Program, Programming Guide	112

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MODEL/FC VPA	DESCRIPTION	PRICE
9969 A	PC 3270 Emulation Program Version 3.0 (standalone and LAN support, LAN coax gateway 5 sessions, SDLC 32 sessions, non-gateway via BSC 3274, SRPI/ECF, 5.25in+3.5in) Warranted, Central Service 90 days or to 6/88	495
0601 A	ADDITIONAL LICENSE, PC 3270 Emulation Program Version 3.0	395
0619 B	ADDITIONAL LICENSE of UPGRADE, PC 3270 Emulation Program Version 1.0 to PC 3270 Emulation Program Version 3.0	??
0620 B	ADDITIONAL LICENSE of UPGRADE, PC 3270 Emulation Program Version 2.0 to PC 3270 Emulation Program Version 3.0	??
9970	UPGRADE, 3270 Emulation Entry Program, Entry Level to PC 3270 Emulation Program Version 3.0	240
0621 B	ADDITIONAL LICENSE of UPGRADE, PC 3270 Emulation Program, Entry V.1 to PC 3270 Emulation Program Version V.3.0	??
SC23-0960	IBM PC 3270 Emulation Program V.3 Application Program Interface (API) and Host Reference	25
NOTE: PC 3270 Emulation Program V.2 is not supported for coaxial attachment to a 3174.		
9953	Upgrade 3270 Emulation Entry Program, Entry Level to PC 3270 Emulation Program Version 2.0	240
SC23-0892	Application Programming Interface Manual and Host Reference for PC 3270 Emulation V.2	25
5345	IBM 3270 Emulation Memory Management Enhancement, swap PC 3270 Emuln Pgm V.2 or later in/out of memory by hotkey, req. Carousel Program by SoftLogic (3.5in+5.25in)	20
0841 A	Advanced Program-to-Program Communication for the IBM PC V.1.11 (SNA LU 6.2 on SDLC and Token-Ring, 3.5in+5.25in) Central service to 6/30/87	190
0849 A	Programming Guide, Advanced Program-to-Program Communication for the IBM PC (3.5in+5.25in)	170
0851 A	ADDITIONAL LICENSE, Advanced Program-to-Program Communication V.1.11 for the IBM PC	145
3653 A	Distributed Data Management/PC (DDM/PC) V.1 for communication to CICS, S/36, S/38, req. APPC/PC or appropriate PS/3X product Warranted, Central Service to 12/88	225
1023 A	Distributed Data Management/PC (DDM/PC) ADDITIONAL LICENSES	150
4451 A	IBM Mainframe Communication Assistant V.1.05 (part of Assistant Series, async or coax, adds support of PC Convertible) (5.25in)	199
0603 A	ADDITIONAL LICENSE, IBM Mainframe Communication Assistant V.1.05 (on 5.25in diskette)	??
4452 A	IBM Mainframe Communication Assistant V.1.05 (part of Assistant Series, async or coax, adds support of PC Convertible) (3.5in)	199
4449	Upgrade Mainframe Communication Assistant to V.1.05	85
9760	Micro-Translator V.3.4	1995
5664-309	PROFS Personal Computer Support (async or coax, process notes, read but not update documents, local notelog/maillog) DSLO also available, Central Service	
4766	One-time option 1-100 users	6000
4767	One-time option 101-500 users (req. FC 4766)	3000
4768	One-time option 501-1000 users (req. FC 4766, 4767)	3000
4769	Monthly option 1-100 users	300
4770	Monthly option 101-500 users (req. FC 4769)	150
4771	Monthly option 501-1000 users (req. FC 4769, 4770)	150
9228 A	PROFS/Personal Computer Connection (PROFS/PC squared) (async or coax), Central service to 6/86	219
6148 A	Personal Services/PC V.1.3 (DISOSS/370, S/38 Office, peer-peer, async or coax, 3278/79 em. adapt., 3270-PC), Warranted, Central service 6 mo. notice or to 12/88 **	299
SC30-3286	DISOSS Version 3 Release 2 Support for Personal Services/PC	3.60

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MODEL/FC VPA	DESCRIPTION	PRICE		
SC30-3332	Personal Services/PC Technical Reference	16	IBM 3737 Model 002 Operator Console Program (provides console support for the IBM 3737 Model 002 Remote Channel to Channel Unit) (Program Package) (FCs 9001, 5097, 4421)	
5798-DZD	Videotex/370 V.2, CICS SNA and X.25 Videotex preparation and presentation, works with PC/Videotex-Graphic Artist Facility, PC/Colorview, PC/Videotex, Central service to 12/89	85000	IBM 3737 Model 002 Operator Console Program (Program Package Upgrade) (FCs 9536, 5098)	
5798-DTW	Videotex/370, CICS SNA and X.25 support for Videotex preparation and presentation, works with PC/Videotex-Graphic Artist Facility (VTXGRAF), PC/Colorview, and PC/Videotex, Central service to 9/87	75000	25F5988 A IBM PC Node Executive (extends change management capability provided by Netview to PCs directly attached to MVS/XA or MVS/ESA) Warranted, Central Service to 12/31/91 (Program Package) (3/89)	
5732-019	IBM System/88 Personal Computer Terminal Support Release 4 (supports IBM PS/2 Model 25 with enhanced keyboard as a terminal connected to the IBM System/88)	120	25F5900 A IBM PC Node Executive (Additional Licenses) (3/89)	
5732-019	IBM System/88 Personal Computer Terminal Support Release 5 (provides compatibility to other System/88 Release 5 licensed programs) (4Q88)	120	25F5900 B IBM PC Node Executive (Documentation) (3/89)	
6242 A	IBM Personal System/2 Graphics Workstation Program, PRPQ 7J0115 (provides PS/2 users with most of function available to users of 3270-PC AT/G and AT/GX)	650	5003 a Personal System/2 Data Migration Facility (moves data one way from PC to Personal System/2, req. parallel adapter and cable on sending system)	
	Enhanced Operator Console Version 3 (provides control of an ISDN network and addresses a variety of network management needs) (Program Package) (FCs 9080, 4562, 5051) (5.25in+3.5in)	3000	<u>NETWORK MANAGEMENT (GENERAL)</u>	
	Enhanced Operator Console Version 3 (from Version 2) (Program Package Upgrade) (FCs 9080, 4563, 5051) (5.25in+3.5in)	1500	5669-024	NetView/PC V.1.2, support for OS/2 req. ARTIC card, Warranted, Central Service 6 mo. notice or to 12/91 (5/89)
	Alert Monitor Program Version 1 (notifies NetView of the status of an ISDN backbone network) (Program Package) (FCs 9080, 4563, 5056) (5.25in+3.5in)	1800	5669-024	NetView/PC V.1.2 (Japanese Feature), support for OS/2 req. ARTIC card, Warranted, Central Service 6 mo. notice or to 12/91 (12/89-Japanese Feature)
	IBM Transmission Network Manager (provides a central point of monitoring/controlling ISDN nodes) (Price varies by number of nodes-price below is for up to 4 nodes) (6/89)	34000	5669-024	UPGRADE NetView/PC V.1.1 to V.1.2 NetView/PC V.1.1, support for non-SNA devices (Token-Ring, Rolm CBX, non-IBM), Alerts sent to Netview, remote console, req. ARTIC card, Warranted, Central Service 6 mo. notice or to 12/91 (FC4024, 5.25in)
			SC30-3482	NetView/PC Installation Guide
			4025	UPGRADE NetView/PC V.1.0 to V.1.1 (W/D 9/30/88)
			52205	NetView/PC ROLM Alert Monitor, NetView/PC application to monitor ROLM CBX, some non-ROLM PBXs (Order from ROLM) Central Service to 12/91

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MODEL/FC VPA	DESCRIPTION	PRICE		
52205	NetView/PC ROLM Alert Monitor V1.1, NetView/PC application to monitor ROLM CBX, some non-ROLM PBXs, supports Netview/PC V1.1 (Order from ROLM) Central Service to 12/91	6500		
52205	NetView/PC ROLM Alert Monitor V1.2, NetView/PC application to monitor ROLM CBX, some non-ROLM PBXs, supports IBM 9751 (Order from ROLM) Central Service to 12/91	6500		
52200	NetView/PC ROLM Call Detail Collector, NetView/PC application to do call accounting on ROLM CBX, some non-ROLM PBX's (Order from ROLM) Central Service to 12/91	6500	SC23-0959	IBM Programmer's guide to the Server-Requester Programming Interface (SRPI) for the IBM PC and IBM 3270 PC 25
52200	NetView/PC ROLM Call Detail Collector V1.1, NetView/PC application to do call accounting on ROLM CBX, some non-ROLM PBX's (Order from ROLM) Central Service to 12/91	6500	5664-327	IBM CMS Servers/Requesters for SRPI, req. VM/SP R.4, Warranted, Central Service 6 mo. notice (monthly charge, also available for graduated one-time charge) 850
50590A	CBX Attendant Directory, provides directory assistance function in support of the IBM 9755 Attendant Console (Order from ROLM) Central Service to 12/91 or 6 months written notice	350	5665-396	IBM TSO/E Servers/Requesters for SRPI, req. TSO/E R.3 and MVS/XA, Warranted, Central Service 6 mo. notice (monthly charge) 1350
	See also the Token-Ring Network Manager V.1.1, which can operate with NetView/PC to provide remote management of Token-Ring Networks		--	Upgrade Attachment/370+ to IBM PC Requesters 188
8174	Inter-System Control Facility/PC, NetView/PC application working with NetView R.2 to do IML, IPL of remote VM, MVS host Warranted, Central Service to 12/89)	1500	6066 A	Host Data Base View Facility (HDBV) V.2.1.1, get data from IC/1(VM), QMF, TIF, AS, format for DIF, Filing Assistant, PDS, Symphony, 123, dBase, Multiplan, or print, uses SRPI, Mainframe Commo Asst or ECF 495
6171 A	IBM PC Distributed Systems Node Executive (downstream file change management and currency, req. S/36 and S/370 running DSX) Warranted, Central service to 12/90 or 6 mo. notice (3.5in+5.25in)	350		
3223 A	ADDITIONAL LICENSE, IBM PC Distributed Systems Node Executive (downstream file change management and currency, req. S/36 and S/370 running DSX)	324		
6169 B	DOCUMENTATION ONLY, IBM PC Distributed Systems Node Executive (downstream file change management and currency, req. S/36 and S/370 running DSX)	16		
			<u>ENHANCED CONNECTIVITY FACILITIES</u>	
				Enhanced Connectivity Facilities support the Server Requester Programming Interface (SRPI) and require MVS/XA TSO/E R.3 or VM/SP R.4. in the host.
				SRPI requires 3270-PC Control Program V.3 or PC 3270 Emulation Program V.3 in the PC or 3270-PC.
			<u>ASYNCHRONOUS</u>	
			<u>GENERAL</u>	
				For sharing of asynchronous ports as Network resources, see the Asynchronous Communications Server Program (FC 2003).
				See also the Multiprotocol Communications Adapter for Async, BSC, and SDLC communications (FC 8001).

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MODEL/FC VPA	DESCRIPTION	PRICE			
4829 a	IBM 75-2400bps Internal Async Modem (short card)	596	0605 A	ADDITIONAL LICENSE, IBM 3101 Emulation (W/D 3/15/89)	149
SA27-3739	Guide to Operations, 2400bps Internal Modem	35	2113	3101 Emulation Extensions (file transfer, highlighting, hotkey)	
SA27-3740	Technical Reference, 2400bps Internal Modem	30		Central service to 3/86	15
SA27-3741	Hardware Maintenance and Service, 2400bps Internal Modem	60			
<u>SERIES/1 PC CONNECTIVITY OPTION</u>					
2074 a	ASYNCH Adapter (included with fixed-disk models of the PC/XT)	73	5710-RTJ	IBM Series/1 PC Connectivity Option	
7619	AST-FourPort/XN Communications Board (4 RS-232 ports to 9600 baud, cable included, for Xenix in PC/AT) (special bid only)	495		Common Sign and Menu System	
0604 A	ADDITIONAL LICENSE, Asynchronous Communications Support V.2 (W/D 3/15/89)	??	9001	Asset Assignment	
			2109	License Fee (no media)	440
			3025	DSKT 2 256 b/s - Object Code	
			3027	DSKT 2 256 b/s - Source Code	
				Printer Emulation for the IBM Personal Computer	
3286 A	PC/Host V.2.0 (FTTERM) (3270 emulation, file transfer support, includes 3101, VT100, VT220 emulations, includes XMODEM, YMODEM and ASCII file transfer) (Program Package) (3.5in+5.25in)	145	9001	Asset Assignment	
			2110	License Fee (no media)	350
			3026	DSKT 2 256 b/s - Object Code	
			3028	DSKT 2 256 b/s - Source Code	
3288 A	PC/Host V.2.0 (FTTERM) (Additional License)	108		Series/1 Pregenerated Operating Environment (requires RPS 6.1, Multiple Terminal Manager, Intelligent Workstation PRPQ, and other PRPQ's)	
3287 B	PC/Host V.2.0 (FTTERM) (Program Package Upgrade) (W/D 4/38/89)	35			
	ROLMbridge 5250 PC Communication Feature (PCCF), supports 5250 emulation via ROLM CBX and ROLMphone or Juniper II (3.5in+5.25in)	??	9001	Asset Assignment	
			2108	DSKT 2 256 b/s - Pregenerated Operating Environment/Process Charge	150
<u>WATERLOO AND WATCOM MICRONET & LANGUAGES (SEE GB20-2339)</u>					
5798-DQG	Series/1 Department Office Control System (EDX, FC9045), Central service to 12/86	1980	5793-AAP	Waterloo and WATCOM Languages, incl. APL, BASIC, COE X, FORTRAN, and Pascal interpreters, Waterloo Sys. Lang., assembler (host and PC programs), Central service for 1 year or to 10/87	
5799-TNG	Series/1 Intelligent Workstation PRPQ V.2 Warranted, Central service 6 mo. notice	175			
5799-TGC	Series/1 Intelligent Workstation PRPQ V.1 Warranted, Central service to 6/85	150	9001	Asset Assignment	N/C
			2004	Waterloo Languages for 30 IBM PC's	4950
			2005	Waterloo Languages for VM/CMS	6600
5732-019	System/88 IBM PC Terminal Support Release 3.1 (Order FC 9080, 4000) (3.5in+5.25in)	100	5793-AAN	Waterloo PC Network Release 1.1 and Waterloo HOSTCM Program (Series/1 and host file servers, printer sharing, DOS support, 3277 emulation), Central service for 1 year or to 10/87	
9186	WESTLAW Communications Session Manager by Direct Aid, Inc. *	350	9001	Asset Assignment	N/C

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MODEL/FC VPA	DESCRIPTION	PRICE
2000	Standalone Series/1 Support	1650
2001	Channel-attached 4994 and S/1 Server (adds 3277 emulation, host libraries)	1650
2002	VM Server (requires FC2001)	1650
2003	CMS HOSTCM Programs (37X5-attach PC network and CMS file transfer without S/1)	330

TWINAXIAL

See also the ROLMbridge 5250 PC Communication Feature.

GENERAL

DISPLAYWRITER/PERSONAL COMPUTER ATTACHMENT

6403664	IBM Displaywriter/XT and PC Attach Convenience Kit Incl. 6403728 and FC 0102	535
6403728	IBM Displaywriter/Personal Computer Attach Convenience Kit Incl. Cable, DW and PC Diskettes, Guide, and two Wrap Plugs (PC and XT also require FC 0102)	495
6403729	IBM Attachment Cable	295
6403730	IBM Wrap Plugs	75
6403731	Attach Program Diskettes	300

2887 a	Display Station Emulation Adapter (5520,S/3X)	518
2891 a	IBM T-Connector	78
2892 a	Twinaxial Cable Assembly	37
2893 a	IBM Terminator	37.75
2894 a	Twinaxial Cable Adapter (Termination)	24.79
2883 a	PC/DSEA Hardware Maintenance Manual V.2	9
2889 a	PC/DSEA Hardware Maintenance Manual	9

TWINAXIAL 5520 ATTACHMENT

BINARY SYNCHRONOUS AND SDLC COMMUNICATION

8001 a	Multiprotocol Communications Adapter (Asc, BSC, SDLC)	498
1204 a	BSC Adapter (PC, XT, and PC/AT)	251
4210 A	IBM PC DisplayComm (BSC) Communications V.1.1 (IBM 2770/3780 and IBM 2780 Emulation)	450
0606 A	ADDITIONAL LICENSE, IBM PC DisplayComm (BSC) Communications V.1.1	385
4187 A	IBM PC DisplayComm (BSC) Communications (IBM 2770/3780 and IBM 2780 Emulation)	409
1205 a	SDLC Adapter (PC, XT, and PC/AT)	251
5799-BRQ	8100 DPPX/SP PC RJE File Transfer, Warranted, Central service 12 mo. notice	1010
9178 A	IBM PC SNA 3790 Batch Communications Program, Central service to 3/88	385
2874 A	Remote 5250 Emulation Program (S/36-38)	195
0608 A	ADDITIONAL LICENSE, Remote 5250 Emulation Program	??

0870 A	IBM 5520/Personal Computer Attachment Program Version 4 Convenience Kit, includes items 2887, 2891, 2892	875
0869 A	IBM 5520/PC Attach Program (V.4)	269
0872 A	ADDITIONAL LICENSE, IBM 5520/PC Attach Program (V.4)	215
	Upgrade V.1 to V.3	220
	Upgrade V.2 to V.3	100
0871	Upgrade V.3 to V.4	100

TWINAXIAL S/34, S/36, S/38 ATTACHMENT

	For remote SDLC 5250 emulation, see the Remote 5250 Emulation Program (FC 2874).	
2910 A	IBM Enhanced 5250 Emulation Installation Convenience Kit V.2.12 for S/34, S/36, and S/38,	845
2911 a	Enhanced Display Station Emulation Adapter Kit V.2.12	623
2911 a	Enhanced Display Station Emulation Adapter Kit (utilizes short or long slot)	595
2871 a	Enhanced Display Station Emulation Adapter	595

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MODEL/FC VPA	DESCRIPTION	PRICE			
2912 A	Enhanced 5250 Emulation Program V.2.12 (5.25in+3.5in)	160	6181	Workstation Feature (LAN-attached PCs as S/36 terminals) Asset Assignment	N/C
0609 A	ADDITIONAL LICENSE, Enhanced 5250 Emulation Program V.2.12 (5.25in+3.5in)	??	4121	Workstation Feature One-Time Charge Option	600
3255 A	Remote 5250 Emulation Program V.2.0 ** (Program Package) (3.5in+5.25in)	285	6517	Workstation Feature DSLO One-Time Charge	450
0716 A	Remote 5250 Emulation Program V.2.0 ** (Additional License)	228	5714-PC1	PC Support/38 (replaces 5799BTZ and 5799BKP) Supports DSEA (FC2887), Enhanced DSEA (FC2879), or remote SDLC 5250 emulation (FC2067), Warranted, Central service 6 mo. notice	
3256 B	Remote 5250 Emulation Program V.2.0 ** (Program Package Upgrade) (3.5in+5.25in) (W/D 1/31/89)	150	4582	Basic License for 5714-PC1	995
3266 B	Remote 5250 Emulation Program V.2.0 ** (Additional License Upgrade) (W/D 1/31/89)	120	6550	Expansion Feature (additional concurrent users, enhanced virtual printer support, performance)	350
3270 B	Remote 5250 Emulation Program V.2.0 ** (Documentation) (documentation only-no diskette)	57	9582	DSLO License for 5714-PC1	876
9705	Enhanced Keyboard Appendix (required to run Enhanced 5250 Emulation Program with PCs having the Enhanced Keyboard)	N/C	5799-BNZ	File Support Utility PRPQ S/34, Warranted, Central service for 90 days	300
2877 a	Integrated Attachment Cable	94	5799-BNY	File Support Utility PRPQ S/36, Warranted, Central service for 90 days	300
			5799-BKP	File Support Utility PRPQ S/38, Warranted, Central service for 90 days	300

The 'Workstation Feature' of PC Support/36 allows Token-Ring attached PCs to emulate 5250 terminals. See also S/36 LAN Communications Program.

COAXIAL COMMUNICATION (3270-PC FAMILY)

For hardware, see "Processors - 3270-PC Versions" on page 39, "Processors - 3270-PC/AT Versions" on page 40, and "Processors - 3270-PC / G and GX Versions" on page 40.

5727-WS1	PC Support/36 (for 5360/5362) Supports DSEA, Remote SDLC, Token-Ring for Virtual Disk/Printer, 5250 emulation, Warranted, Central service 6 mo. notice			The IBM 3270-PC Control Program can be upgraded to the IBM 3270 Workstation Program	
4765	Monthly License Charge Option	48			
4764	One-Time Charge Option	700			
9681	DSLO One-Time Charge	615			
6248	Workstation Feature (LAN-attached PCs as S/36 terminals) Asset Assignment	N/C	6168460	Virtual Device Interface Update Kit for V.1 and V.2	N/C
4401	Workstation Feature Monthly Charge Option	100	0835 A	3270-PC High-Level Language Application Program Interface V.3.1 for Workstation Program V.1, incl. C interface and National Language Support (Program Package) (3.5in+5.25in) **	215
4400	Workstation Feature One-Time Charge Option	1500	0653 A	3270-PC High-Level Language Application Program Interface V.3.1 (Additional License) **	170
9565	Workstation Feature DSLO One-Time Charge	1320	0836 B	3270-PC High-Level Language Application Program Interface V.3.1 (Program Package Upgrade from V.3.0) (3.5in+5.25in)	65
5727-WS6	PC Support/36 (for 5364) Supports DSEA, Remote SDLC, Token-Ring for Virtual Disk/Printer, 5250 emulation, Warranted, Central service 6 mo. notice				
4792	One-Time Charge Option	280			
9837	DSLO One-Time Charge	210			

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MODEL/FC VPA	DESCRIPTION	PRICE
0659 B	3270-PC High-Level Language Application Program Interface V.3.1 (Additional Licenses Upgrade from V.3.0)	50
5797 A	3270-PC High-Level Language Application Program Interface V.3.0 for 5271 and 5273, Central service to 12/87 ** (W/D 9/30/88)	195
0602 A	ADDITIONAL LICENSE, 3270-PC High-Level Language Application Program Interface V.3.0 for 5271 and 5273 (W/D 6/28/89)	??
5802	Upgrade High-Level Language Application Program Offering to Version 3.0	95
GG24-1687	3270-PC, A Guide to API Programming	N/C
5983 A	IBM Professional Work Manager V3.0 Customizer (installation environment for host and PC applns, packaged APIs for logon and host applns, req. EZ-VU II, HLLAPI) (3.5in+5.25in) (Program Package) Central Service to 9/30/90	350
5984 A	IBM Professional Work Manager V3.0 Customizer (Additional License)	325
5986 B	IBM Professional Work Manager V3.0 Customizer (3.5in+5.25in) (Upgrade)	50
5980 A	IBM Professional Work Manager V3.0 Runtime (provides the runtime and executable features of Professional Work Manager V.3.0) (3.5in+5.25in) (Program Package) Central Service to 9/30/90	300
5981 A	IBM Professional Work Manager V3.0 Runtime (Additional License)	250
5987 B	IBM Professional Work Manager V3.0 Runtime (3.5in+5.25in) (Upgrade)	20
5985 B	IBM Professional Work Manager V3.0 Runtime (Documentation)	92
3282 A	IBM Professional Work Manager V2.0 (execution environment for host and PC applns, packaged APIs for logon and host applns, req. EZ-VU II, HLLAPI) (Program Package) Central Service to 12/18/89 (W/D 11/18/88)	650
3295 B	IBM Professional Work Manager V2.0 (Additional Licenses) (W/D 08/16/89)	575
5991	IBM Professional Work Manager V2.0 (Documentation Only)	13.25
5992	Upgrade Professional Work Manager to Version 2.0 (Program Package Upgrade) (W/D 09/23/88)	263
5940 A	Workstations Aided Software Engineering (requires Professional Work Manager V2.0) (Program Package) (3.5in+5.25in) Warranted, Central Service to 5/20/90 **	350
5941 A	Workstations Aided Software Engineering (Additional Licenses)	315
5942 B	Workstations Aided Software Engineering (Documentation)	9
	See the 3270-PC Color Graphics Applications (GGXA) graphical editor, FC 1508	
5664-281	3270-PC File Transfer Program VM/SP 2.1, Warranted, Central service 6 mo. notice	750
5665-311	3270-PC File Transfer Program MVS/TSO, Warranted, Central service 6 mo. notice	750
5798-DQH	3270-PC File Transfer Program CICS/VS	660
	The above three programs are also for the 3278/79 Emulation Adapter and the IBM PC Network SNA 3270 Program.	
9360 A	3270-PC File Transfer Express DPCX/DOSF and DPPX/SP2, with printer sharing, Central service to 12/86	79
5798-DWG	Answer/DB, host server for Lotus/Answer, dBase/Answer, runs under IMS or CICS to access IMS or VSAM data, Central Service to 12/88 (NOTE: other feature codes are needed to specify tape density, etc.)	
4410	One-Time Charge for Answer/DB under IMS/DC	35000
4411	One-Time Charge for Answer/DB under CICS	20000
	<u>COAXIAL COMMUNICATION (3278/79 EMULATION ADAPTER)</u>	
	See also the 4700 Finance Communication System.	
	See also the Answer/DB, Lotus/Answer, and dBase/Answer products under Coaxial Communication (3270-PC) above.	

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MODEL/FC VPA	DESCRIPTION	PRICE	
	See also the PC 3270 Emulation Program under Communications Hardware and Software (General) above.		Release 2.1 of PC/VM Bond adds support for VM/SP Release 5, PC Enhanced Keyboard, 3174, and PC DOS 3.2
5050 a	Advanced IBM PC 3278/79 Emulation Adapter (short card, replaces and is equivalent to old FC2507)	624	6128 A VM Bond Rel.2.1 (Virtual disks, message reception, REXX/PC, 3278/79 emuln, PC request host services, req.5664-298 Rel.2.1), Warranted, Central service 6 mo. notice or 12/31/89 **
0803 A	IBM PC 3270 Emulation Program, Entry V.1.2 (not supported on EGA in some modes) Warranted, Central Service to 12/28/88 **	325	6132 M VM Bond Technical Coordinator Support package Rel.2.1 (required for NSC support, contains one copy of FC6128 and FC4143), Warranted, Central service 6 mo. notice or to 6/86
0633 A	ADDITIONAL LICENSE, IBM PC 3270 Emulation Program, Entry V.1.2	270	
0637 B	ADDITIONAL LICENSE of UPGRADE, PC 3270 Emulation Program Entry Level V.1.0 to V.1.2	110	5664-298 PC Bond Rel.2.1 (Host support for FC7077), Warranted, Central service Rel.2 to 12/31/89, Rel.1 to 6/30/86
0638 B	ADDITIONAL LICENSE of UPGRADE, PC 3270 Emulation Program Entry Level V.1.1 to V.1.2	55	9001 Asset assignment
SA23-0268	IBM PC 3278/79 Emulation Adapter Guide to Operations and Diagnostics	??	5466 1600 BPI tape media
6575 a	IBM PC 3278/79 Emulation Adapter Technical Reference for the Advanced Adapter (FC 5050)	6	5467 6250 BPI tape media
2336 a	IBM PC 3278/79 Emulation Adapter Technical Reference Addendum (for the original adapter)	16	5465 3480 Tape Cartridge
6585 a	IBM PC 3278/79 Emulation Adapter Hardware Maint. and Service Addendum (for the advanced adapter)	43	4566 One-Time Charge Option
2337 a	IBM PC 3278/79 Emulation Adapter Hardware Maint. and Service Addendum (for the original adapter)	22	4547 Monthly Charge Option
7045 A	PErsonal COmputer MONitor (PECOMON, response time, availability monitor), Central service to 2/14/88	325	
SH24-5087	PC/VM Programmer's Guide	3.35	<u>COAXIAL COMMUNICATION (ATTACH TO EXISTING 3278/3279)</u>
7022 A	VM Bond Rel.2 (Virtual disks, message reception, REXX/PC, 3278/79 emuln, PC request host services, req.5664-298 Rel.2), Warranted, Central service 6 mo. notice or 12/31/89 **	250	5318 IBM 3278 PC Adapter (3278 Portion) for m1-4 S/N A0000-N9999, 9V000-9W999
7043 A	VM Bond Technical Coordinator Support package Rel.2 (required for NSC support, contains one copy of FC7022 and FC4143), Warranted, Central service 6 mo. notice or to 6/86	400	5317 IBM 3278 PC Adapter (3278 Portion) for m5, other m4
			5799-WXJ 8100 DPPX/SP 3278/9 Attach File Transfer, Warranted, Central service 12 mo. notice
			<u>LOCAL AREA NETWORKS</u>
			See also "IBM SolutionPac Offerings" on page 15 for the LAN Implementation Solutions, which incorporate some of the following products.
			G320-0893 The Information Connection - A Selection Guide to Local Area Networks and Media
			For remote SDLC 3270 emulation on the PC and Token-Ring Networks, see the IBM PC 3270 Emulation Program.

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MODEL/FC VPA	DESCRIPTION	PRICE
84X0083 A	IBM Operating System/2 Local Area Network Server, V.1.0 (provides resource sharing for devices connected to a local area network) (Program Package) (3.5in) Warranted, Central Service 12 mo. notice ** (11/88)	995
84X0084 A	IBM Operating System/2 Local Area Network Server, V.1.0 (provides resource sharing for devices connected to a local area network) (Program Package) (5.25in) Warranted, Central Service 12 mo. notice ** (11/88)	995
84X0088 A	IBM Operating System/2 Local Area Network Server, V.1.0 (Additional License) (3.5in) (11/88)	895
84X0089 A	IBM Operating System/2 Local Area Network Server, V.1.0 (Additional License) (5.25in)(11/88)	895
84X0090	IBM Operating System/2 Local Area Network Server, V.1.0 (Documentation Only) (11/88)	65
3246 A	IBM PC Local Area Network Program, V.1.3 (provides resource sharing for interconnected workstations on a local area network (Program Package) (3.5in) Warranted, Central Service 12 mo. notice **	225
7873 A	IBM Local Area Network Support Program, provides NETBIOS and IEEE 802.2 interfaces for new adapters, (3.5in+5.25in) Warranted, Central Service to 9/88 **	50
0631 A	ADDITIONAL LICENSE, IBM Local Area Network Support Program **	28
0632 B	DOCUMENTATION ONLY (Final Version) IBM Local Area Network Support Program	19
1081 A	IBM PC Local Area Network Program V.1.2, enhanced performance, disk cache, up to 254 sessions depending on adapter (W/D 10/19/88)	175
0645 A	ADDITIONAL LICENSE, IBM PC LAN Program V.1.2 (W/D 7/19/89)	135
0646 B	DOCUMENTATION ONLY, IBM PC LAN Program V.1.2 (W/D 10/19/88)	30
3247 A	IBM PC Local Area Network Program, V.1.3 (provides resource sharing for interconnected workstations on a local area network (Program Package) (5.25in) Warranted, Central Service 12 mo. notice **	225
3248 A	IBM PC Local Area Network Program, V.1.3 (Additional License) (3.5in)	175
3249 A	IBM PC Local Area Network Program, V.1.3 (Additional License) (5.25in)	175
3250 B	IBM PC Local Area Network Program, V.1.3 (Documentation Only)	30
3251 B	IBM PC Local Area Network Program, V.1.3 (Application Programmer's Guide)	45
3252 B	IBM PC Local Area Network Program, V.1.3 (Program Package Upgrade from V.1.2) (3.5in) (W/D 4/28/89)	90
7062 B	IBM PC Local Area Network Program, V.1.3 (Program Package Upgrade from V.1.2) (3.5in) (W/D 4/28/89)	90
7082 B	IBM PC Local Area Network Program, V.1.3 (Additional License Upgrade from V.1.2) (W/D 4/28/89)	90
7123 B	IBM PC Local Area Network Program, V.1.3 Software Compatibility Reference (Documentation)	45
PX0027	IBM PC Local Area Network IPL, allows remote IPL to another PC from server on PC Network or Token Ring, (order FC 4098, 5836, 9001)	34
7036 A	IBM Interconnect Program, connect PC Net-PC Net, PC Net-Token-Ring, Central service to 6/30/87, req. Token-Ring NETBIOS Program with Token-Ring Net **	495
8391 A	IBM Local Area Network Asynchronous Connection Server Pgm, up to 32 sess on dedicated gateway, Token and PC Net (3.5in+5.25in) Warranted, Central Service to 6/30/89 (Program Package)	1200
8335 A	IBM Local Area Network Asynchronous Connection Server Pgm (Additional License)	1155
2003 A	IBM Asynchronous Communications Server Program for the IBM Token-Ring Network and PC Network	495
9396	IBM Local Area Network PrintManager (shares 3820 printer, also for Corvus Omninet) Central service to 9/86	800
7771 A	IBM Remote NETBIOS Access Facility (telephone access to server, network functions from remote PC, for any NETBIOS LAN, runs both in gateway and remote PC) (W/D 12/20/88)	195

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MODEL/FC VPA	DESCRIPTION	PRICE
16F0535 A	IBM Remote NETBIOS Access Facility V.2.1 (provides remote access to IBM PCs or PS/2s to the IBM Token Ring LAN and IBM PC Network via models of the ROLM CBX, IBM 9750 and PBXs) (Program Package)	245
16F0536 A	IBM Remote NETBIOS Access Facility V.2.1 (Additional Licenses)	200
16F0537 B	IBM Remote NETBIOS Access Facility V.2.1 (Documentation Only)	20
16F0538 B	IBM Remote NETBIOS Access Facility V.2.1 (Program Package Upgrade)	50
8910 A	IBM LAN Manager V.1.0 for Token-Ring or broadband PC Net, manages multi-ring networks (5.25in+3.5in) Warranted, Central Service to 6/89 **	1995
8913	IBM LAN Manager Upgrade, upgrade IBM Token-Ring Network Manger to LAN Manager V.1.0 (through 9/88)	500
25F8217 A	IBM LAN Manager Entry V.1.0, runs under OS/2 EE V.1.1 (Program Package) Warranted, Central Service to 12/30/90 ** (5.25in+3.5in) (3/89)	995
25F7696 A	IBM LAN Manager Entry V.1.0 (Additional Licenses) (3/89)	960
25F8217	IBM LAN Manager Entry V.1.0, upgrade from IBM PC LAN Management Program V.1.0 (part number 83X8873) (Program Package Upgrade) (3/89) (W/D 12/31/89)	995
25F8215 A	IBM LAN Manager V.2.0, runs under OS/2 EE V.1.1 (Program Package) Warranted, Central Service to 12/30/90 ** (5.25in+3.5in) (3/89)	2995
25F7695 A	IBM LAN Manager V.2.0 (Additional Licenses) (3/89)	2945
25F8215	IBM LAN Manager V.2.0, upgrade from IBM PC LAN Manager V.1.0 (Program Package Upgrade) (3/89) (W/D 12/31/89)	1250
96X5860 A	IBM PC Network Bridge Program, allows connection of multiple segments of PC Network and/or IBM Token Ring Network into a single logical LAN (Program Package) Warranted, Central Service to 12/30/90 ** (3.5in) (3/89)	4995
96X5862 A	IBM PC Network Bridge Program (Additional Licenses) (3/89)	4970
8873 A	IBM PC 3270 Emulation LAN Management Program V.1.0, resides in PC 3270 Emulation gateway, manages small remote ring, (5.25in+3.5in) Warranted, Central Service to 6/89 **	995
5763 A	IBM Token Ring Network Trace and Performance Program, provides visibility to traffic handling and performs user data throughput measurement (5.25in+3.5in)	295
9689 A	Novell Advanced NetWare/86 * V.2.0A	1595
5458	Novell Advanced NetWare * V.2.12 (3.5in) (for PS/2, incl. Dedicated, Non-Dedicated, API and remote bridge software)	2195
5459 A	Novell Advanced NetWare * V.2.12 (5.25in) (for PS/2, incl. Dedicated, Non-Dedicated, API and remote bridge software)	2595
4773 A	IBM PC Classroom LAN Administration System (CLASS), V.1.1 (Installation aid for IBM education software under Netware/86 program) (3.5in+5.25in)	995
<u>IBM TOKEN-RING NETWORK</u>		
See "Single Shipment Volume Offering (Token-Ring Network)" on page 10 for the terms of the Single Shipment Volume Discount Offering for the Token-Ring Network PC Adapter.		
SK2T-0299	IBM Token-Ring Network Starter Kit Guide	34.50
8228-KT2	IBM Token-Ring Network Starter Kit (1-8228, 1-Component Housing, 4-TR PC Adapter, 4-TR PC Cable, 4-30ft. Jumper Cable, 4-LAN Support Pgm, 4-LAN Pgm 1.2, TR Starter Kit Guide)	4350
SK2T-0303	IBM Token-Ring Network Starter Kit Guide, 2nd Edition	55
3391 a	IBM Token-Ring Network PC Adapter	728
0370	8 Token-Ring Network PC Adapters, Single-Shipment Volume Offering	4726
0371	20 Token-Ring Network PC Adapters, Single-Shipment Volume Offering	11398
83X7839	Remote Program Load (RPL) EPROM RPQ to do remote IPL via Token-Ring Adapter FC 3391 (also called RPQ 8Q0561) fits in socket on adapter, req. RPQ FC PX0027 or equivalent in server	80
5063 a	IBM Token-Ring Network PC Adapter II, Required for Industrial PC, Token-Ring Bridge, and S/36 Attachment	939

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MODEL/FC VPA	DESCRIPTION	PRICE				
5773 a	IBM Token-Ring Network Trace and Performance PC Adapter II, Requires Token-Ring Trace and Performance Program	1385		3098 a	System/36 LAN Attachment Adapter (extra, for gateway PC/AT, note that FC 3098 is also shipped as part of 536X LAN Attachment Feature)	628
3390 a	IBM Token-Ring Network PC Adapter Cable	36		5727-LC1	IBM System/36 5360/5362 LAN Communications (links S/36, Token-Ring via dedicated PC/AT, supports 5250 and 3278 emulation via PC Support/36) Warranted, Central Service 6 mo. notice	
83X7839	Remote Program Load (RPL) EPROM RPQ to do remote IPL via Token-Ring Adapter II FC 5063 (also called RPQ 8Q0561) fits in socket on adapter, req. RPQ FC PX0027 or equivalent in server	80		4404	Monthly Charge Option	75
6042	IBM Token-Ring Network PC Adapter Diskette (3.5in) provides adapter handler Adapter and Adapter II for 8530, included with adapters after April 2, 1987 shipment)	N/C		4403	One-Time Charge Option	925
6043	IBM Token-Ring Network PC Adapter Hardware Maintenance and Service Addendum for 8530	20		9520	DSLO One-Time Charge	814
	See also the Advanced Program-to-Program Communication Program (FC 7038) for support of SNA LU 6.2 on the Token-Ring Network			5727-LC6	IBM System/36 5364 LAN Communications, Warranted, Central Service 6 mo. notice	
7860 A	IBM Token-Ring Network Bridge Program V.1.1, adds centralized multi-ring LAN management, (3.5in+5.25in) Central Service 90 days notice or 6/89 **	1495		4122	One-Time Charge Option	695
8880 A	Upgrade Token-Ring Network Bridge Program V.1.0 to V.1.1 (through 9/30/88)	130		9887	DSLO One-Time Charge	521
0908 A	IBM Token-Ring Network Bridge Program V.1.0, Creates bridges between rings, Central Service 90 days notice or 12/87 ** (W/D 12/20/88)	1495				
6041 A	IBM Token-Ring Network Bridge Installation Kit, Incl. program, 2 Adapter-IIs (W/D 12/20/88)	3285				
0931 A	IBM Token-Ring Network Manager V.1.1 (problem determination, error recovery), can work with NetView/PC, Warranted, Central Service to 12/88 (3.5in+5.25in) ** (W/D 12/20/88)	1495				
	For S/36 LAN Communications, see also PC Support/36 which is required for LAN connection					
				IBM TOKEN-RING NETWORK SUPPORT PUBLICATIONS		
				69X7830	IBM Token-Ring Network PC Adapter Technical Reference (Including the Adapter II)	195
				6165880	IBM Token-Ring Network PC Adapter Hardware Maintenance and Service (W/D 12/20/88)	250
				<u>IBM PC NETWORK</u>		
				1220 a	PC Network Adapter II (broadband, 1 per PC, incl. 9-ft. coax, req. LAN Support Program or PC Network Protocol Driver)	597
				S68X-2223	IBM PC Network Adapter II Technical Reference	21.25
				0061 A	IBM PC Network Protocol Driver, supports new PC Net adapters and Personal System/2, and up to 61 sessions in a server,	100
				0666 A	ADDITIONAL LICENSE, IBM PC Network Protocol Driver	81
				0607 A	ADDITIONAL LICENSE, IBM PC Network Analysis Program (W/D 3/15/89)	??
				S68X-2265	IBM PC Network Adapter Technical Reference	17.25
				1221 a	IBM PC Network Baseband Adapter (baseband, req. LAN Support Program)	295

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MODEL/FC VPA	DESCRIPTION	PRICE
S68X-2267	IBM PC Network Baseband Adapter Technical Reference	21.25

IBM SERIES/1-PC CHANNEL ATTACHMENT FEATURE

IBM TRANSMISSION CONTROL PROTOCOL/INTERNET PROTOCOL (TCP/IP)

	IBM TCP/IP implements UDP, FTP, TELNET, and SMTP protocols on the IBM Token-Ring and on Ethernet	
3271 A	IBM Transmission Control Protocol for the Personal System/2 (allows participation in an Internet network using the TCP/IP protocol set) Warranted, Central Service to 12/31/89 (Program Package) (3.5in)	195
3269 A	IBM Transmission Control Protocol for the Personal System/2 (allows participation in an Internet network using the TCP/IP protocol set) Warranted, Central Service to 12/31/89 (Program Package) (5.25in)	195
3270 A	IBM Transmission Control Protocol for the Personal System/2 (Additional License) (3.5in)	145
3272 A	IBM Transmission Control Protocol for the Personal System/2 (Additional License) (5.25in)	145
5798-FAL	IBM TCP/IP for the PC Feature, req. IBM TCP/IP for VM, Warranted, Central Service 6 mo. notice (also available for monthly charge)	
4028	One-Time Charge Option, TCP/IP/PC, 1-20 users (add FC 5039 for 5.25in, FC 5043 for 3.5in diskettes)	2400
4030	One-Time Charge Option, TCP/IP/PC, 21-50 users (req. FC4028) (add FC 5040 for 5.25in, FC 5044 for 3.5in diskettes)	3200
4032	One-Time Charge Option, TCP/IP/PC, 51-100 users (req. FC4028, 4030) (add FC 5041 for 5.25in, FC 5045 for 3.5in diskettes)	5000
4034	One-Time Charge Option, TCP/IP/PC, 101-250 users (req. FC4028, 4030, 4032) (add FC 5042 for 5.25in, FC 5046 for 3.5in diskettes)	13500
7039	Machine-Readable Source Code, TCP/IP/PC, 5.25in	350
7043	Machine-Readable Source Code, TCP/IP/PC, 3.5in	350

S/1 file server-print server for attached PC's. Also serves as an inter-net bridge for PC Network. Supported on S/1 processors: 4954, 4955, 4956, 4959, or 4965.

Feature codes 4000 and 4001 are ordered as features on the S/1 processor. They are also available for a monthly rental charge. For more information, see your IBM representative.

4000	S/1 to PC Channel Attach Feature (S/1 Controller Card, PC Channel Extender Card)	3265
4001	S/1 to PC Channel Attach Cable (12-ft cable)	435
5719-CN1	IBM Series/1-PC Connect Version 1 (sep.QDA), Warranted, Central service to 3/88	
9720	Asset registration	400
2123	Media distribution and process charge	34

IBM PERSONAL COMPUTER CLUSTER SYSTEM

0027	IBM PCjr Cluster Attachment	83
1206 a	IBM Personal Computer Cluster Adapter	356
1207 a	IBM Personal Computer Cluster Cable Kit	115

IBM SYSTEM/36 (5364) CONSOLE ATTACHMENT

The 5364 console is an IBM PC, XT, or AT which is directly attached to the 5364 via a cable. This console provides the functions of system control panel, initial program load, diagnostics, and communications support, as well as execution of PC applications.

4548 a	5364 Driver Card (extra, for replacement)	239
2205 a	Hardware Maintenance and Service Manual for the 5364 Driver Card	80

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MODEL/FC VPA	DESCRIPTION	PRICE
3606 a	Stick-on Keytop Labels--PC Style (extra)	4.70
3641 a	Stick-on Keytop Labels--5250 Style (extra)	4.70

VOICE COMMUNICATIONS

See also the Telephone Access to Office Systems Program for touch-tone access to PS/36 and PS/38, FC 7039

8989 A	IBM Personal Telephone Manager Program (for the Personal Telephone Manager Adapter), Central service for 90 days or to 12/31/87	40
SX27-3686	Guide to Operations - Personal Telephone Manager Adapter	60
SX27-3657	Technical Reference Manual - Personal Telephone Manager Adapter	14.50
SX27-3656	Hardware Maintenance & Service for the Personal Telephone Manager Adapter	23.25
4771 a	Voice Communications Option (includes Voice Communications Adapter and Operating Subsystem, cables, guide, diagnostics)	1040

4839 a	Voice Communications Adapter (does not include and not FCC Approved without Voice Communications Operating Subsystem program)	995
0708 A	IBM PC Voice Communications Operating Subsystem	65

The following programs all require the Voice Communications Option.

0743 A	IBM PC Voice Communications Application Program Interface (API) Reference	149
2004 A	Personal Telephone Manager for Voice Communications Option, Central Service for 90 days or to 12/31/87	70
0741 A	IBM PC Voice/Phone Assistant (answering-machine functions)	149
0742 A	IBM PC Voice-Activated Keyboard Utility (voice input to PC applications or DOS, hands-off operation)	99
0740 A	IBM PC Augmented Phone Services (telephone aid, voice synthesis, touch-tone input for speech/hearing impaired)	149
5002 a	Speech Adapter, Personal System/2 Model 30	361
S68X-2207	Technical Reference Manual Supplement, 8530 Speech Adapter	13

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MODEL/FC VPA	DESCRIPTION	PRICE
<u>PC-DOS SOFTWARE</u>		
<u>PC-DOS OPERATING SYSTEMS AND PROGRAMMING AIDS</u>		
	1421 A IBM DOS 4.00 Command Reference	30
<u>PC-DOS OPERATING SYSTEM AND COMPILERS</u>		
	See "Redistribution of PC Software" on page 12 for information on redistributing programs prepared using the BASIC Compiler.	
1419 A	IBM PC Disk Operating System (DOS) 4.0 (Includes support for large fixed disks and expanded memory) (3.5in) Warranted, Central Service to 8/31/89	150
1435 A	IBM PC Disk Operating System (DOS) 4.0 (Includes support for large fixed disks and expanded memory) (5.25in) Warranted, Central Service to 8/31/89	150
1423 A	IBM PC Disk Operating System (DOS) 4.0 (Additional Licenses)	110
1424 B	IBM PC Disk Operating System (DOS) 4.0 (Documentation Only)	40
1425 B	Upgrade any release of PC DOS to DOS 4.0 (Program Package Upgrade) (3.5in)	95
1426 B	Upgrade any release of PC DOS to DOS 4.0 (Program Package Upgrade) (5.25in)	95
1427 B	Upgrade any release of PC DOS to DOS 4.0 (Additional Licenses Upgrades)	55
0957 A	IBM PC Disk Operating System (DOS) 3.3 (Includes support for Personal System/2) (3.5in+5.25in)	120
0648 A	ADDITIONAL LICENSE, IBM PC Disk Operating System (DOS) 3.3	99
0650 B	DOCUMENTATION ONLY, IBM PC Disk Operating System (DOS) 3.3	35
4120 A	IBM PC Disk Operating System (DOS) 2.1 (Includes support for PC/XT and PCjr)	85
1418 A	IBM DOS 4.00 and Windows Kit for Personal System/2 (3.5in) Warranted, Central Service to 8/3/89	314
1420 A	IBM DOS 4.00 Technical Reference Application Programming (5.25in+3.5in)	105
	4101 IBM PCjr BASIC Interpreter	78
	See "Redistribution of PC Software" on page 12 for information on redistributing applications prepared using the IBM COBOL Compiler.	
	9646 COBOL/2 Workbench by Micro Focus * (5.25in)	3290
	9588 Turbo Pascal by Borland International (5.25in) *	114.25
	9799 Turbo Pascal by Borland International (3.5in, for PC Convertible, Personal System/2) *	99.95
<u>OPERATING ENVIRONMENTS, MENU SYSTEMS</u>		
	0813 A IBM PC Fixed Disk Organizer (3.5in+5.25in)	60
	9768 General Business Facility by Metro-Mark Integrated Systems * (data entry screens, also entry into BDI document)	1995
	9384 A Interactive System Productivity Facility Version 2 (ISPF/EZ-VU II Development Facility) (3.5in+5.25in) Warranted, Central service for 90 days or to 1/89	495
	GC34-4103 Application Development Hints and Tips for ISPF EZ-VU Development Facility	N/C

PC-DOS Software

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MODEL/FC VPA DESCRIPTION PRICE

9383 A Interactive System Productivity Facility Version 2 (ISPF/EZ-VU II Runtime Facility) (3.5in+5.25in) Warranted, Central service for 90 days or to 1/89 59

0617 A ADDITIONAL LICENSE, Interactive System Productivity Facility Version 2 (ISPF/EZ-VU II Runtime Facility) ??

9385 A IBM PC Organizer (req.EZ-VU Runtime), Warranted, Central service for 90 days or to 4/87 165

0802 A TopView Version 1.12, Warranted, Central service for 90 days or to 3/31/87 (3.5in+5.25in) 175

4453 A TopView Version 1.10, Warranted, Central service for 90 days or to 3/31/87 175

4454 A TopView Programmer's Toolkit Version 1.10, Warranted, Central service for 90 days or to 3/31/87 (order via PCTB) 429

9817 A Microsoft Windows/286 V.2.1 for Personal System/2 (5.25in) * 99

9818 A Microsoft Windows/286 V.2.1 for Personal System/2 (3.5in) * 99

0885 A PS/2 Collegiate Kit (incl. PS/2 Mouse, DOS 3.3, full Microsoft Windows: Write, Paint, Cardfile, and Desktop access., 4 blank diskettes, system diskettes) Discounted only when ordered separately under PCLP agreement 314

0885 A PS/2 Collegiate Kit (incl. PS/2 Mouse, DOS 3.3, Microsoft Windows: Write, Paint, Cardfile, and Desktop access., 4 blank diskettes, system diskettes) Discounted only when ordered separately under PCLE agreement 314

PROGRAMMING AIDS

5448 A Above Disc 2.0 by Teleware West * (allow software written for LIM EMS 4.0 standard to use disk or extended memory in lieu of EMS memory adapter, supports Multifunction Adapter) (5.25in+3.5in) 99.95

16F0489 Cross-System Product/Application Execution (EZ-RUN), Warranted, Central service to 12/30/90 or 6 mo. notice (Copy included with a CSP/AD license) (Program Package)

0489 A Cross-System Product/Application Execution (EZ-RUN), Warranted, Central service to 12/30/90 or 6 mo. notice (Additional License) 150

0490 B Cross-System Product/Application Execution (EZ-RUN), Warranted, Central service to 12/30/90 or 6 mo. notice (Additional License Upgrade) 35

4143 A IBM PC Professional Debug Facility (incl. NMI card) 165

See "Redistribution of PC Software" on page 12 for information on redistributing applications which contain the IBM PC Sort program.

GENERAL PURPOSE PROGRAMS

GENERAL

5669-191 C Computer-Integrated Electrical Design Series (CIEDS)/Design Capture/AT (FC5858, Category A of separate CIEDS/AT Agreement) Central service for 90 days or to 5/88 2900

4172 A Electric Poet 75

9389 A IBM PC Engineering Simulation Program (Differential equation solver), Central service to 4/87 439

5397 A Excel by Microsoft * (3.5in+5.25in) (286/386 processor required) 495

4051 A Personal Editor 115

4048 A Professional Editor 139

9410 Microsoft Project V.4.0 (3.5in+5.25in) * 495

9790 Metro * (5.25in) 85

IBM ASSISTANT SERIES

See also the Mainframe Communication Assistant program and the IBM PC Voice/Phone Assistant.

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MODEL/FC VPA	DESCRIPTION	PRICE
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The Assistant Series products and upgrades listed below are packaged with both 5.25in and 3.5in diskette copies of the programs.

9958 A	IBM DisplayWrite Assistant	195
4457 A	IBM Filing Assistant V.2	195
4458 A	IBM Graphing Assistant V.2	195
4459 A	IBM Reporting Assistant V.2	175
4460 A	IBM Writing Assistant V.2	195
4461 A	IBM Planning Assistant V.2	195

For a special promotional offering on the following product, see "Personal System/2 Classroom Network Trial Program" on page 2.

4867 A	IBM Classroom Network Assistant (requires IBM Classroom LAN Operating System V.1.10) (3.5in+5.25in)	600
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The Assistant Series products listed below are packaged with only 5.25in diskette copies of the programs.

4306 A	IBM Document Retrieval Assistant	149
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IBM PERSONAL DECISION SERIES

See also the Attachment/36 and Attachment/370 programs.

PRODUCTIVITY PRODUCTS

PDS V.2 adds LAN support, English-language queries to V.1 function

6060 A	Data Edition V.2 (prereq. for others) Warranted, Central service for 90 days or to 2/89 (5.25in)	255
0612 A	ADDITIONAL LICENSE, Data Edition V.2	??
0626 B	DOCUMENTATION ONLY, Data Edition V.2	??
6061 A	Reports+ Edition V.2, Warranted, Central service for 90 days or to 2/89 (5.25in)	185
0615 A	ADDITIONAL LICENSE, Reports+ Edition V.2	??
0629 B	DOCUMENTATION ONLY, Reports+ Edition V.2	??

6062 A	Plans+ Edition V.2, Warranted, Central service for 90 days or to 2/89 (5.25in)	425
0614 A	ADDITIONAL LICENSE, Plans+ Edition V.2	??
0628 B	DOCUMENTATION ONLY, Plans+ Edition V.2	??
6063 A	Network+ Edition (adds data sharing for up to 12 PCs) Warranted, Central service for 90 days or to 2/89 (5.25in)	395
0613 A	ADDITIONAL LICENSE, Network+ Edition	??
0627 B	DOCUMENTATION ONLY, Network+ Edition	??
6065 A	English Access Edition, Warranted, Central service for 90 days or to 2/89 (5.25in)	395
0616 A	ADDITIONAL LICENSE, English Access Edition,	??
0630 B	DOCUMENTATION ONLY, English Access Edition,	??
6085 A	Data Edition V.2 (prereq. for others) Warranted, Central service for 90 days or to 2/89 (3.5in)	255
6075 A	Reports+ Edition V.2, Warranted, Central service for 90 days or to 2/89 (3.5in)	185
6076 A	Plans+ Edition V.2, Warranted, Central service for 90 days or to 2/89 (3.5in)	425
6077 A	Network+ Edition (adds data sharing for up to 12 PCs) Warranted, Central service for 90 days or to 2/89 (3.5in)	395
6079 A	English Access Edition, Warranted, Central service for 90 days or to 2/89 (3.5in)	395

The following programs are available on 5.25in diskette.

9367 A	Data Edition (prereq. for others, enh. 9/85 to allow installation of DisplayWrite) (5.25in) Warranted, Central service for 90 days or to 9/86	275
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BUSINESS PROGRAMS

GENERAL

	IBM Cable Data Management System (for IBM Cabling System, order thru IBM Direct) Central service to 1/86	450
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MODEL/FC VPA	DESCRIPTION	PRICE
4157 A	IBM Doctor's Office Manager for the IBM Personal Computer	2749
9543	Excelerator V.1.8 (systems analysis) *	7500
5785-DFW	Executive Data Link (EDL) for COPICS - file extract RPQ, Central Service to 12/88	
9001	Asset Registration	N/C
4600	One-Time Charge	10000
4601	Monthly Charge	500
9029	VSE 1600 bpi Tape	N/C
9031	VSE 6250 bpi Tape	N/C
9129	MVS 1600 bpi Tape	N/C
9131	MVS 6250 bpi Tape	N/C
5726-SS1	Executive Data Link (EDL) for System/34 MAPICS - file extract RPQ	2500
5727-SS1	Executive Data Link (EDL) for System/36 MAPICS - file extract RPQ	2500
5798-RRP	Executive Data Link (EDL) for CMAS/34	2750
5798-RRZ	Executive Data Link (EDL) for System/36 CMAS	2750
4065 A	IBM PC Insurance Agency System	2500

BPI SYSTEMS

4026 A	General Accounting	425
4027 A	Accounts Receivable	425
4028 A	Payroll	425
4029 A	Job Cost	550
4030 A	Inventory Control	425

BUSINESS ADVISER SERIES

Business Adviser received maintenance update 1.3.0 on July 7, 1987 adding warehouse location data and other enhancements.

Business Adviser received maintenance update 1.4.0 on July 31, 1987 including LAN Program 1.2 and DOS 3.3 support, removal of copy protection, and other enhancements.

9630 A	General Accounting, Warranted, Central Service for 90 days or to 12/31/89 (5.25in)	995
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6055 A	General Accounting, Warranted, Central Service for 90 days or to 12/31/89 (3.5in)	995
9700 A	Accounts Payable, Warranted, Central Service for 90 days or to 12/31/89 (5.25in)	995
6056 A	Accounts Payable, Warranted, Central Service for 90 days or to 12/31/89 (3.5in)	995
9701 A	Accounts Receivable, Warranted, Central Service for 90 days or to 12/31/89 (5.25in)	995
6057 A	Accounts Receivable, Warranted, Central Service for 90 days or to 12/31/89 (3.5in)	995
9702 A	Payroll, Warranted, Central Service for 90 days or to 12/31/89 (5.25in)	995
6058 A	Payroll, Warranted, Central Service for 90 days or to 12/31/89 (3.5in)	995
9704 A	Inventory Control Edition (5.25in)	995
6068 A	Inventory Control Edition (3.5in)	995
9705 A	Order Entry Edition (5.25in)	995
6067 A	Order Entry Edition (3.5in)	995
9706 A	Information Management Edition (5.25in)	995
6069 A	Information Management Edition (3.5in)	525
9703 A	Network Extension (1 per remote user, to 8 active users), Warranted, Central Service for 90 days or to 12/31/89 (5.25in)	245
6059 A	Network Extension (1 per remote user, to 8 active users), Warranted, Central Service for 90 days or to 12/31/89 (3.5in)	245

IBM BUSINESS MANAGEMENT SERIES - APPLICATION EDITIONS

9193 A	General Ledger Edition, Warranted, Central service for 90 days or to 12/88	775
9194 A	Accounts Payable Edition, Warranted, Central service for 90 days or to 12/88	775
9195 A	Accounts Receivable Edition, Warranted, Central service for 90 days or to 12/88	775
9196 A	Payroll Edition, Warranted, Central service for 90 days or to 12/88	775
9197 A	Order Entry and Invoicing Edition, Warranted, Central service for 90 days or to 12/88	775

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MODEL/FC VPA	DESCRIPTION	PRICE
9198 A	Inventory Accounting Edition, Warranted, Central service for 90 days or to 12/88	775
9208 A	Business Management Series LAN Access Edition (one copy per networked user, up to four remote users, supports above applications) Warranted, Central service for 90 days or to 12/88 (Token-Ring support for BMS LAN Access)	245
9200 A	Financial Extensions Edition, Warranted, Central service for 90 days or to 9/86	275
9201 A	Accounting Extensions Edition, Warranted, Central service for 90 days or to 9/86	275
<u>IBM BUSINESS MANAGEMENT SERIES - TRAINING EDITIONS</u>		
9202 A	General Ledger Training Edition, Warranted, Central service for 90 days or to 12/88	95
9203 A	Accounts Payable Training Edition, Warranted, Central service for 90 days or to 12/88	95
9204 A	Accounts Receivable Training Edition, Warranted, Central service for 90 days or to 12/88	95
9205 A	Payroll Training Edition, Warranted, Central service for 90 days or to 12/88	95
9206 A	Order Entry and Invoicing Training Edition, Warranted, Central service for 90 days or to 12/88	95
9207 A	Inventory Accounting Training Edition, Warranted, Central service for 90 days or to 12/88	95
<u>4700 AND BANKING SOFTWARE</u>		
See also "IBM SolutionPac Offerings" on page 15 for the Branch Banking Automation offering which incorporates some of the following products.		
The following programs operate with Application Foundation.		
9851 A	BRANCHBANKER BLUE (5.25in diskette) *	500
9846 A	BANCstar Access Account Opening (5.25in diskette) *	750
9847 A	BANCstar Access Mortgage Loan (5.25in diskette) *	1995
9848 A	BANCstar Access Consumer and Commercial Loan (5.25in diskette)	1995
9849 A	BANCstar Access Mortgage, Consumer, and Commercial Loan (5.25in diskette) *	2995
9850 A	BANCstar Access Generator (Customization, installation aid) (5.25in diskette) *	4500
9828 A	BRANCHBANKER BLUE (3.5in diskette) *	500
9837 A	BANCstar Access Account Opening (3.5in diskette) *	750
9838 A	BANCstar Access Mortgage Loan (3.5in diskette) *	1995
9839 A	BANCstar Access Consumer and Commercial Loan (3.5in diskette)	1995
9840 A	BANCstar Access Mortgage, Consumer, and Commercial Loan (3.5in diskette) *	2995
9841 A	BANCstar Access Generator (Customization, installation aid) (5.25in diskette) *	4500
0790 A	Safe Deposit 4700 by Interactive Planning *	800
0791 A	Currency Control 4700 by Interactive Planning *	1500
0792 A	Loan Loss Control 4700 by Interactive Planning *	1500
75X3261 A	IBM Financial Branch System Services Version 2 (Program Package)	450
75X3262 A	IBM Financial Branch System Services Version 2 (Documentation)	150
75X3263 A	IBM Financial Branch System Services Version 2 (Additional Licenses)	300
3264	IBM Financial Branch System Services Version 2.1 (Program Package) (9/23/88) (5.25in+3.5in)	472
3265	IBM Financial Branch System Services Version 2.1 (Documentation) (9/23/88)	157
3266	IBM Financial Branch System Services Version 2.1 (Additional Licenses) (9/23/88)	315
3267	IBM Financial Branch System Services Version 2.1 (Program Package Upgrade) (9/23/88) (5.25in+3.5in)	N/A

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MODEL/FC VPA	DESCRIPTION	PRICE			
3268	IBM Financial Branch System Services Version 2.1 (Additional Licenses Upgrades) (9/23/88)	N/A	5063	Cross Sell Manager Version 2 - Author Application Foundation * Feature (3.5in)	1900
75X3258 A	IBM Financial Branch System Integrator (Program Package) (9/88)	275	5061	Cross Sell Manager Version 2 - Workstation * (3.5in)	550
75X3259 A	IBM Financial Branch System Integrator (Documentation) (9/88)	75			
75X3260 A	IBM Financial Branch System Integrator (Additional Licenses) (9/88)	200		<u>DATA BASE PROGRAMS</u>	
75X3221 A	4700 Personal Computer Application Services (Documentation Only)	70		See also the integrated families of programs under "General Purpose Programs," such as "IBM Assistant Series" on page 72, and "IBM Personal Decision Series" on page 73.	
4406 A	4700 PC Application Services (supports FCS Input/Output/Security Options), Warranted, Central service 6 mo. notice or to 9/89	300	9445	dBASE III Plus 1.1 by Ashton-Tate * (3.5in+5.25in)	695
75X3222 A	4700 Personal Computer Application Services (Additional License)	200			
3232 A	IBM Consumer Transaction Definition Version 1.1 (Program Package) (12/88)	6400		<u>GRAPHICS SOFTWARE</u>	
3251 A	IBM Consumer Transaction Definition Version 1.1 (Program Package Upgrade) (12/88) (W/D 9/30/89)	100		See also the integrated families of programs under "General Purpose Programs," such as "IBM Assistant Series" on page 72, and "IBM Personal Decision Series" on page 73. Graphics programs which support specific applications are included under their application heading. Communications programs which support graphics are included under the communications heading.	
3241 A	IBM Consumer Transaction Definition Version 1.1 (Documentation) (12/88)	160			
3242 A	IBM Consumer Transaction Definition Version 1.1 (Additional Licenses) (12/88)	6380			
3252 A	IBM Consumer Transaction Definition Version 1.1 (Additional Licenses Upgrade) (12/88) (W/D 9/30/89)	90	5796-TBP	CADAM Drawing Viewing on IBM PC and Industrial Computer -- Host Product for VM and MVS, formats drawing for viewing on PC, Central Service to 1/88	1250
3233 A	IBM Consumer Transaction Runtime Version 1.1 (Program Package) (12/88)	855	5850	1600 bpi Tape of 5796-TBP	N/C
3253 A	IBM Consumer Transaction Runtime Version 1.1 (Program Package Upgrade) (12/88) (W/D 9/30/89)	60	5851	6250 bpi Tape of 5796-TBP	N/C
3243 A	IBM Consumer Transaction Runtime Version 1.1 (Documentation) (12/88)	160	5852	3480 Cartridge of 5796-TBP	N/C
3244 A	IBM Consumer Transaction Runtime Version 1.1 (Additional Licenses) (12/88)	700	5796-TBQ	CADAM Drawing Viewing on IBM PC and Industrial Computer -- PC Product, view drawing on CGMA, EGA, 3270-PC APA, req. 8087/80287, Central Service to 1/88	750
3254 A	IBM Consumer Transaction Runtime Version 1.1 (Additional Licenses Upgrade) (12/88) (W/D 9/30/89)	45	5858	5.25in diskette of 5796-TBQ	N/C
5060	Cross Sell Manager Version 2 - Author * (5.25in)	11000	5601-100	DrawMaster Workstation Support (3270-PC AT/GX cooperative processing front end to Publishing Systems DrawMaster, does not require GCP, requires 5151), Central service 6 mo. notice (5.25in)	450
5062	Cross Sell Manager Version 2 - Author Application Foundation * Feature (5.25in)	1900	5601-100	DrawMaster Workstation Support (PS/2 cooperative processing front end to Publishing Systems DrawMaster, does not require GCP) Central service 6 mo. notice (3.5in)	450
5060	Cross Sell Manager Version 2 - Workstation * (5.25in)	550			
5061	Cross Sell Manager Version 2 - Author * (3.5in)	11000			

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MODEL/FC VPA	DESCRIPTION	PRICE
2908 A	ADDITIONAL LICENSE, GDDM-PCLK V.1.0 (W/D 3/15/89)	38
6242913 A	GDDM-PCLK V.1.1, adds alternate graphics session to PC 3270 workstation emulators via hotkey, req. host GDDM-PCLKF for CMS or TSO, Warranted, Central Service to 5/31/89	75
6242914 A	GDDM-PCLK V.1.1 (Additional License)	60
6242915 B	GDDM-PCLK V.1.1 (Documentation Only)	20
6242916 B	GDDM-PCLK V.1.1 (Program Package Upgrade)	50
6242917 B	GDDM-PCLK V.1.1 (Additional License Upgrade)	40
5601-081 F	Shop Assist R.1.1 (works with GDQF 4.1 for showing text and graphic on split screen, eg assembly instructions, plus barcode reader support, pan, zoom) (3.5in or 5.25in) Warranted, Central Service to 12/88	770
5601-081 F	Shop Assist R.1 (works with GDQF 4.1 for showing text and graphics on split screen, eg assembly instructions, plus barcode reader support, pan, zoom) (3.5in or 5.25in) Warranted, Central Service to 6/88	770
7034 A	IBM PC SlideWrite	225
1508 A	IBM 3270-PC Color Graphics Applications (GGXA) (graphics editor, plotter for 3270-PC/G/GX), Warranted, Central service to 12/86 **	395
1519 A	IBM 3270-PC Color Graphics Charting (GGXC) (interactive chart utility for 3270-PC/G/GX), Warranted, Central service 6 mo. notice or 12/86 **	395
9783	Freelance Plus * (3.5in)	495
9797	Freelance Plus * (5.25in)	495
75X3283 A	IBM Geo-Information Workstation Supervisor Version 1 (Program Package) Warranted, Central Service to 5/31/90 ** (10/28/88)	995
75X3285 A	IBM Geo-Information Workstation Supervisor Version 1 (Additional Licenses) (10/28/88)	892
0805 A	IBM Image Support Facility 2 V.1.1, subroutines for driving scanners, processing images	95
5785-EDW	IBM PC Image Document Utility (end-user application for display, limited edit, scan using 3117 or 3118 or Scanmaster, specify FC 4622 and 9074), Central Service to 9/88, req. FC 0921	240
6113 A	IBM ImagEdit (capture image from scanner, scale, rotate, copy, trim, erase, annotate, freehand drawing) Not supported on 8513 or 8514, Warranted, Central Service for 90 days or to 6/89	395
3255 A	IBM ImagEdit V.2.0 (capture and edits images scanned with 3117, 3118 and 3119 and OEM scanners) (Program Package) (5.25in+3.5in)	495
5996 A	IBM ImagEdit V.2.0 (Additional Licenses)	462
5997 B	IBM ImagEdit V.2.0 (Program Package Upgrade)	205
8168 A	TextReader V.1.0 (converts typewritten or printed pages for use with word processing software) (Program Package) (3.5in)	595
8161 A	TextReader V.1.0 (converts typewritten or printed pages for use with word processing software) (Program Package) (5.25in)	595
8162 B	TextReader V.1.0 (Additional Licenses)	555

IBM DISPLAYGRAPHICS

3228 A	IBM DisplayGraphics (Program Package) (3.5in) Warranted, Central service to 10/31/91	650
3229 A	IBM DisplayGraphics (Program Package) (5.25in) Warranted, Central service to 10/31/91	650
3277 A	IBM DisplayGraphics (Additional Licenses)	550
6156 B	IBM DisplayGraphics (Documentation Only)	100

GEM SERIES BY DIGITAL RESEARCH

IBM IMAGE SOFTWARE

IBM INFOWINDOW SOFTWARE

See also the section on 'Educational Programs' for specific classes that use Infowindow.

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MODEL/FC VPA	DESCRIPTION	PRICE
8392 A	IBM InfoWindow Control Program V.1.3 (Program Package) (includes support for Models 8550, 8560 and 8570 and Pioneer LD-V6200A optional videodisc player) (3.5in+5.25in)	180
8393 A	IBM InfoWindow Control Program V.1.3 (Additional License) (3.5in+5.5in)	152
4922	IBM InfoWindow Control Program V.1.3 (Upgrade) (3.5in+5.5in)	50
2416	Upgrade InfoWindow Control Program V.1.0 to V.1.2	50
4504 A	InfoWindow Presentation Editor, Define multimedia presentation, use with Presentation Interpreter, Req. InfoWindow Control Pgm, Central Service for 90 days or 6/89 * (3.5in+5.25in)	4975
4505 A	InfoWindow Presentation Interpreter, Display multimedia presentation defined with Presentation Editor, Req. InfoWindow Control Pgm, Central Service for 90 days or 6/89 * (3.5in+5.25in)	135
6086 A	Video/PAssage Authoring System V.1.1 Adds support for 2 videodisk players via IEEE-488, (3.5in+5.25in) Warranted, Central Service for 90 days or to 3/89	7200
6087 A	Video/PAssage Presentation System V.1.1 Adds support for 2 videodisk players via IEEE-488, (3.5in+5.25in) Warranted, Central Service for 90 days or to 3/89	265
6094 A	InfoWindow PILOT - Authoring (develop courseware for InfoWindow) Central Service to 1Q89	2050
6095 A	InfoWindow PILOT - Presentation Central Service to 1Q89	200
4502 A	Learning System/1 Authoring System (LS/1) Courseware authoring for use with InfoWindow (5.25in)	5000
4503 A	Learning System/1 Presentation System (LS/1) For use with InfoWindow (5.25in)	125

MICRO CADAM FOR PC/AT AND PS/2

PC-DOS Software

4786 E	MICRO CADAM Cornerstone (Convenience Kit) (Order FC 9001, 5075) Central Service for 90 days (3.5in)	2995
4786 E	MICRO CADAM Cornerstone (Convenience Kit) (Order FC 9001, 5074) Central Service for 90 days (5.25in)	2995
4785 E	MICRO CADAM Release 1.2 (Convenience Kit) (Order FC 9001, 5073) Central Service for 90 days (3.5in)	6495
4785 E	MICRO CADAM Release 1.2 (Convenience Kit) (Order FC 9001, 5071) Central Service for 90 days (5.25in)	6495
4784 E	MICRO CADAM Release 1.2 (Program Package) (Order FC 9001, 5072) Central Service for 90 days (3.5in)	5400
4784 E	MICRO CADAM Release 1.2 (Program Package) (Order FC 9001, 5070) Central Service for 90 days (5.25in)	5400

IBM PC STORYBOARD

4401 A	IBM PC Storyboard Plus (see also PC PicturePak), Warranted, Central service for 90 days or to 6/89	350
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IBM EXPERT SYSTEM ENVIRONMENT (ESE)

8497346 A	IBM Expert System Consultation Environment (ESCE/PC) (Program Package) Warranted, Central service for 90 days or to 12/31/91 ** (3/89)	595
8497346 A	IBM Expert System Consultation Environment (ESCE/PC) (Additional Licenses) (3/89)	515
8497346 A	IBM Expert System Consultation Environment (ESCE/PC) (Documentation) (3/89)	7

SELF EDUCATION FACILITY

5601-187	Self Education Facility on the IBM Personal Computer (Program Package) (FC 9074, 4642) (3.5in+5.25in)	2500
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IBM DISCOVER/EDUCATION

As of September 20, 1988

MODEL/FC VPA	DESCRIPTION	PRICE			
75X3291	Discover/DOS - DOS Introduction and Operations (5.25in)	49.95	5793-AEY	F	CAMM (Computer-Aided Manufacturing Management) *
75X3292	Discover/DOS - DOS Introduction and Operations (3.5in)	49.95	9001	F	Asset Registration
75X3293	Discover/DOS - DOS Implementation (5.25in)	69.95	6504	F	CAMM System Kit (required, prereq. for all other features)
75X3294	Discover/DOS - DOS Implementation (3.5in)	69.95	6505	F	CAMM DSE Analytical Module, Standard Graphics
DE010	Discover/Education - DOS Introduction and Implementation (available in IBM Learning Centers) (3 days-tuition per half-day)	75	6506	F	CAMM DSE Analytical Module, Enhanced Graphics
8222	Discover/Education - 3990-3880 Introduction and Operations (5.25in+3.5in) Warranted, 90 days or 9/1/89	495	6507	F	CAMMGraph Build/Display, Enhanced Graphics
<u>VIRTUAL DEVICE INTERFACE</u>			6508	F	CAMMGraph Display, Enhanced Graphics
0929	A IBM PC Graphics Development Toolkit V.1.2	530	6509	F	Offline Controller/Setup, Allen-Bradley
S68X-2280	Display Adapter 8514/A 1.20 VDI Drivers for Graphics Development Toolkit V.1.2	30	6510	F	Offline Controller/Setup, Analogic
See "Redistribution of PC Software" on page 12 for information on redistributing programs prepared using the Graphics Development Toolkit V.1.10.			6511	F	Offline Controller/Setup, General Electric
0456	IBM 5279 Color Display VDI 1.10 Driver (for Graphics Development Toolkit 1.10, Standalone)	N/C	6525	F	Offline Controller/Setup, Modicon
<u>INDUSTRIAL SOFTWARE</u>			6526	F	Offline Controller/Setup, Texas Instruments
5777-DBJ	A Capacity Management with the IBM PC (CAPOSS-E update, scheduling, resequencing, synchronization: req. DOS 3.1, PC 3270 Emul V.2 59x9951, EZ-VU) The following vendor-logo program offerings are for use with IBM Industrial Computers.	2700	6512	F	Offline Controller/Setup, Turnbull Control Systems
5793-AGN	F !Barsoft by ASAP Systems (Barcode Label Design and Printing) *	N/C	6627	F	Floor Manager (reqd for each operator station)
9080	F Asset Registration	N/C	6629	F	Device Driver, Allen-Bradley
6500	F Barsoft Software	995	6631	F	Device Driver, Analogic
6501	F Barsoft Manual	75	6632	F	Device Driver, General Electric
			6633	F	Device Driver, Modicon
			6635	F	Device Driver, Texas Instruments
			6636	F	Device Driver, Turnbull Control Systems
			6517	F	Extra CAMM Manuals, Allen-Bradley
			6518	F	Extra CAMM Manuals, Analogic
			6519	F	Extra CAMM Manuals, General Electric
			6529	F	Extra CAMM Manuals, Modicon
			6530	F	Extra CAMM Manuals, Texas Instruments
			6520	F	Extra CAMM Manuals, Turnbull Control Systems
			5793-AHB	F	Allen-Bradley Communication Protocol Program for CAMM using ARTIC *
			9080	F	Asset Registration
			6639	F	One-Time Charge
			6640	F	User's Guide (Additional)
			5793-AGZ	F	General Electric Communication Protocol Program for CAMM using ARTIC *
			9080	F	Asset Registration
			6647	F	One-Time Charge
			6648	F	User's Guide (Additional)
			5793-AHA	F	Gould Modicon Communication Protocol Program for CAMM using ARTIC *
			9080	F	Asset Registration
			6610	F	One-Time Charge

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MODEL/FC VPA	DESCRIPTION	PRICE
6615 F	User's Guide (Additional)	65
5793-AGY F	Texas Instruments Communication Protocol Program for CAMM using ARTIC *	
9080 F	Asset Registration	
6641 F	One-Time Charge	500
6642 F	User's Guide (Additional)	65
5793-AGT F	Cribware by Applied Control Software (Tool Crib Inventory) *	
9080 F	Asset Registration	N/C
6567 F	Cribware Software	2500
6551 F	Cribware Manual	53
5793-AGP F	Easylabel by Tharo Systems (Barcode Label Design and Printing) *	
9080 F	Asset Registration	N/C
6568 F	Easylabel Software	2500
6550 F	Easylabel Manual	125
5793-AGF F	Energy 2.0 by Systems Associates for Butler, Elan, Futronix, Honeywell, and OPTO-22 subsystems *	
9080 F	Asset Registration	N/C
6585 F	Energy 2.0 Software	6000
6586 F	Extra Energy 2.0 Manuals	55
5793-AGQ F	The Fix by Intellution (Process Control, Monitoring, Digital and Analog I/O) *	
9080 F	Asset Registration	N/C
6536 F	The Fix Software with EPROM for IBM Color/Graphics Adapter	4500
6537 F	The Fix Software with EPROM for IBM Enhanced Graphics Adapter	4500
6595 F	BASIC Language Data Base Access for The Fix	395
6546 F	BASIC Language Data Base Access User's Guide, Additional	28
6596 F	C Language Data Base Access for The Fix	395
6547 F	C Language Data Base Access User's Guide, Additional	28
6597 F	Online Spreadsheet Interface for The Fix	250
6593 F	Online Report Package for The Fix	150
6598 F	Historical Trending for The Fix	650
6549 F	Historical Trending User's Guide, Additional	28
5793-AGX F	Engineering/Development portion of The Fix *	
9080 F	Asset Registration	N/C
6522 F	Engineering/Development Software with EPROM for IBM Color/Graphics Adapter	2100
6523 F	Engineering/Development Software with EPROM for IBM Enhanced Graphics Adapter	2100
5793-AGW F	Runtime portion of The Fix *	
9080 F	Asset Registration	N/C
6502 F	The Fix, Runtime, with EPROM for IBM Color/Graphics Adapter	2675
6503 F	The Fix, Runtime, with EPROM for IBM Enhanced Graphics Adapter	2675
6587 F	IBM Digital/Analog Adapter Device Driver	795
6588 F	Arcosystems Device Driver	795
6589 F	Allen-Bradley Device Driver	1095
6590 F	Data Translation Device Driver	795
6591 F	Gould Modicon Device Driver	1095
6592 F	Opto 22 Device Driver	795
6594 F	OEM Device Driver Tool Kit, The Fix	1250
6538 F	User's Guides, Set, The Fix	125
6539 F	User's Guide, IBM DACA, The Fix	28
6540 F	User's Guide, Arcosystems, The Fix	28
6541 F	User's Guide, Allen-Bradley, The Fix	28
6542 F	User's Guide, Data Translation, The Fix	28
6543 F	User's Guide, Gould Modicon, The Fix	28
6544 F	User's Guide, Opto 22, The Fix	28
5793-ACW F	Fleet Maint (Vehicle Maintenance Scheduler) *	
9001 F	Asset Registration	N/C
6570 F	Fleet Maint Software	3950
6571 F	Fleet Maint Manual, extra	53
5798-DZJ	Industrial Monitoring and Automation System, Personal Computer Workstation Modules (part of 5798-DXW, req. EGA or PGC, use FC 9074+4023) Central Service to 12/88	450
5793-AGR F	Loopworks by Equinox Data (Process Monitoring and Control, Digital/Analog I/O) *	
9080 F	Asset Registration	N/C
6569 F	Loopworks Software	2995
6535 F	Loopworks Manual	105
5793-AFD F	MEDIA-FLEX (Maintenance Work and Parts Inventory Management) *	
9001 F	Asset Registration	N/C
6532 F	Maintenance Management Software	5995
6558 F	Maintenance Management Manual, extra	113

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MODEL/FC VPA	DESCRIPTION	PRICE			
5793-AGB F	MEDIA-FLEX (Preventive Maintenance Management) *		6609 F	Draftec User's Guide (Additional)	55
9001 F	Asset Registration	N/C	6576 F	User's Guide (Additional)	55
6521 F	Preventive Maintenance Software	3995	6603 F	Cable to Connect Industrial PC to Allen-Bradley Data Highway	85
6556 F	Inventory Module Upgrade (Makes 5793-AGB equivalent to 5793-AFD)	3000	6579 F	Cable to Connect Industrial PC to Allen-Bradley Terminal	75
6557 F	Preventive Maintenance Manual, extra	113			
5793-AFF F	Micro Maint (Maintenance Scheduler) by Diagonal Data *		5793-AHH F	Taylor Industrial Software (Controller Programmer) *	
9001 F	Asset Registration	N/C	9001 F	Asset Registration	N/C
6561 F	Micro Maint Software	4950	6622 F	Allen-Bradley PLC-2 Offline Programming	1250
6562 F	Micro Maint Manual, extra	53	6623 F	User's Guide (Additional)	55
6600 F	CAMM Interface Module	550	6603 F	Cable to Connect Industrial PC to Allen-Bradley Data Highway	85
5793-AFC F	Minute Man (Part Profile Generator) *		6579 F	Cable to Connect Industrial PC to Allen-Bradley Terminal	75
9001 F	Asset Registration	N/C			
6564 F	Minute Man Software	4990	5793-AGC F	Taylor Industrial Software (Controller Programmer) *	
6566 F	Minute Man Manual, extra	53	9001 F	Asset Registration	N/C
5793-AFA F	Quality Alert (Statistical Quality Control) *		6573 F	Allen-Bradley PLC-3 Software	2500
9001 F	Asset Registration	N/C	6577 F	User's Guide (Additional)	55
6559 F	Quality Alert Software	795	6625 F	Draftec	950
6560 F	Quality Alert Manual, extra	38	6609 F	Draftec User's Guide (Additional)	55
5601-053 F	Remote Terminal Interface Utility Programs for the IBM Industrial Computers (Support Remote Terminal Interface Adapter for industrial PCs into 7552)		6603 F	Cable to Connect Industrial PC to Allen-Bradley Data Highway	85
9001 F	Asset Registration	N/C	6579 F	Cable to Connect Industrial PC to Allen-Bradley Terminal	75
4594 F	One Time Charge	240	6583 F	Allen-Bradley PLC-3 Ladder Logic Documentation Package	2500
5099 F	Diskettes and manual	N/C	6602 F	Allen-Bradley PLC-3 Wiring Diagram Generator	500
5793-AEZ F	SQCpack (Statistical Quality Control) *		5793-AHC F	Taylor Industrial Software (Controller Programmer) *	
9001 F	Asset Registration	N/C	9001 F	Asset Registration	N/C
6553 F	SQCpack Software	595	6605 F	Allen-Bradley 1774-PLC Ladder Logic Documentation Package	1250
6555 F	SQCpack Manual, extra	38	6606 F	Allen-Bradley 1774-PLC Ladder Logic User's Guide (Additional)	55
6554 F	SQCpack Instruction Videotapes (VHS, 12 tapes)	5600	6603 F	Cable to Connect Industrial PC to Allen-Bradley Data Highway	85
5793-ACX F	Taylor Industrial Software (Controller Programmer) *		6579 F	Cable to Connect Industrial PC to Allen-Bradley Terminal	75
9001 F	Asset Registration	N/C			
6572 F	Allen-Bradley PLC-2 Ladder Logic Documentation Package	2500	5793-AHD F	Taylor Industrial Software (Controller Programmer) *	
6601 F	Allen-Bradley PLC-2 Up/Downline Loading	350	9001 F	Asset Registration	N/C
6602 F	Allen-Bradley PLC-2 Wiring Diagram Generator	500	6618 F	Modicon Micro-84 Documentation Package	1250
6625 F	Draftec	950	6604 F	Cable to Connect Industrial PC to Modicon P190	75
			6619 F	User's Guide (Additional)	55

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MODEL/FC VPA	DESCRIPTION	PRICE
5793-AHE F	Taylor Industrial Software (Controller Programmer) *	
9001 F	Asset Registration	N/C
6607 F	Modicon Micro-84 Ladder Logic Documentation Package	1250
6613 F	Modicon Wiring Diagram Generator	500
6625 F	Draftec	950
6609 F	Draftec User's Guide	55
6604 F	Cable to Connect Industrial PC to Modicon P190	75
6608 F	User's Guide (Additional)	55
5793-AHF F	Taylor Industrial Software (Controller Programmer) *	
9001 F	Asset Registration	N/C
6611 F	Modicon 584/884/984 Ladder Logic Documentation Package	2500
6613 F	Modicon Wiring Diagram Generator	500
6614 F	Modicon 584/984 Up/Downline Loading	350
6625 F	Draftec	950
6609 F	Draftec User's Guide (Additional)	55
6604 F	Cable to Connect Industrial PC to Modicon P190	75
6612 F	User's Guide (Additional)	55
5793-AHG F	Taylor Industrial Software (Controller Programmer) *	
9001 F	Asset Registration	N/C
6616 F	Texas Instruments Ladder Logic Documentation Package	2500
6617 F	User's Guide (Additional)	55
5601-052 F	Language Extensions for the IBM 7552 (BASIC, C, ASM, Pascal subroutines for orderly shutdown on power loss, set alarms, read/write CMOS)	
9001 F	Asset Registration	N/C
4591 F	One-Time Charge	395
5184 F	Publication and diskettes	N/C
<u>ARTIC SUPPORT SOFTWARE</u>		
5669-179 F	Communication Subsystem V.1.1 for ARTIC, incl. Users Guide	
9001 F	Asset Registration	N/C
5137 F	Distribution on 5.25in Diskette	N/C
5146 F	Distribution on 3.5in Diskette	N/C
4638 F	One-Time Charge	475
SC28-8009	Users Guide, ARTIC Communications Subsystem	85
5601-060 F	IBM Realtime Interface Co-Processor C Language Support	
9001 F	Asset Registration	N/C
4000 F	One-Time Charge	430
5201 F	5.25in Diskette	N/C
5020 F	3.5in Diskette	N/C
5686-001 F	IBM Realtime Interface Co-processor DOS Support (supports ARCTIC/2)	80
5662-281 F	IBM Realtime Interface Co-processor OS/2 Support (supports ARCTIC/2)	160
5688-044 F	IBM Realtime Interface Co-processor Extended Services (FCs 9001, 5092, 4039) (5.25in) Warranted, Central Service to 12/31/89 (12/30/88)	160
5688-044 F	IBM Realtime Interface Co-processor Extended Services (FCs 9001, 5492, 4039) (3.5in) Warranted, Central Service to 12/31/89 (12/30/88)	160
S16F-1961	IBM Realtime Interface Co-processor Extended Services Users Guide (with diskettes) (12/30/88)	162
5669-176 F	IBM Realtime Interface Co-Processor Developers Kit V2 (high-level language interface for BASIC, PASCAL, C, examples, debugger, format dump)	1850
5038 F	IBM Device Data Management Support (for IBM Industrial Computer, IBM Personal Computer and IBM Personal System/2) (5.25in) (2/24/89)	595
5028 F	IBM Device Data Management Support (for IBM Industrial Computer, IBM Personal Computer and IBM Personal System/2) (3.5in) (2/24/89)	595
SC28-8023	IBM Device Data Management Support (Publications Diskette) (5.25in) (2/24/89)	??
SC28-8024	IBM Device Data Management Support (Publications Diskette) (3.5in) (2/24/89)	??
5039 F	IBM Communications Protocol Programs for Allen-Bradley, General Electric, Gould and Texas Instruments Devices (provides attachment support for programmable controllers) (5.25in) (2/24/89)	495
5029 F	IBM Communications Protocol Programs for Allen-Bradley, General Electric, Gould and Texas Instruments Devices (provides attachment support for programmable controllers) (3.5in) (2/24/89)	495

PC-DOS Software

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MODEL/FC VPA	DESCRIPTION	PRICE
<u>INTEGRATED PROGRAMS</u>		
See also the integrated families of programs under "General Purpose Programs," such as "IBM Assistant Series" on page 72, and "IBM Personal Decision Series" on page 73.		
9805 A	Electric Desk (Academic Edition) on 5.25in diskette *	63.95
9806 A	Electric Desk (Academic Edition) on 3.5in diskette *	63.95
9807 A	Electric Desk (Academic Edition) on PCjr cartridge *	86
9694 L	Electric Desk (Academic Edition) User's Guide *	12.95
9448	Symphony 2.0 by Lotus Development * (5.25in)	695
9800	Symphony 2.0 by Lotus Development * (3.5in)	695
9047	1-2-3 Version 2.01 by Lotus Development (5.25in)	495
9769 A	1-2-3 Version 2.01 by Lotus Development (3.5in)	495

WORD PROCESSING PROGRAMS

See also the integrated families of programs under "General Purpose Programs," such as "IBM Assistant Series" on page 72, and "IBM Personal Decision Series" on page 73.

GENERAL

6476161 A	MARKUP, V.1, WYSIWYG data-entry of DCF documents, Warranted, Central Service to 10/16/90 (3.5in+5.25in)	375
9104	Microsoft Word V.4.0 (3.5in+5.25in) *	450
5740-XR1	STAIRS/PC (Storage and Information Retrieval System/PC, cooperative processing with STAIRS/VS MVS CICS, provides guided front end) Warranted, Central service 12 mo. notice	
4622	Tier 1 (1-100 users) STAIRS/PC Monthly Charge Option	142
4628	Tier 1 (1-100 users) STAIRS/PC One Time Charge Option	3000
4633	Tier 2 (101 users or more) STAIRS/PC Monthly Charge Option (Req. Tier 1 as prerequisite)	48

4634	Tier 2 (101 users or more) STAIRS/PC One Time Charge Option (Req. Tier 1 as prerequisite)	1000
4071 A	Word Proof	65
9266	WordPerfect 5.0 by Wordperfect Corp. International (5.25in) *	495
9785	WordPerfect 5.0 by Wordperfect Corp. (3.5in, for Personal System/2) *	495
<u>DESKTOP PUBLISHING</u>		
9791 A	PageMaker V.3.0 (page layout and electronic pasteup, 5.25in) *	795
9794 A	PageMaker V.3.0 for Personal System/2 (page layout and electronic pasteup, 3.5in) *	795
9956 A	IBM Interleaf Publisher (3.5in) (Program Package) Warranted, Central Service three months or 12/31/90 **	2495
5912 A	IBM Interleaf Publisher (5.25in) (Program Package) Warranted, Central Service three months or 12/31/90 **	2495
9967 A	IBM Interleaf Publisher Data Export (3.5in+5.25in) (Program Package) Warranted, Central Service three months or 12/31/90 **	500

IBM PC DISPLAYWRITE SERIES

9904 A	IBM PC DisplayWrite 4, (5.25in) Warranted, Central Service for 90 days or to 3/88	495
9913 A	IBM PC DisplayWrite 4, (3.5in) Warranted, Central Service for 90 days or to 3/88	495
0611 A	ADDITIONAL LICENSE, IBM PC DisplayWrite 4	425
0668 B	DOCUMENTATION ONLY, IBM PC DisplayWrite 4	70
9914	Upgrade DisplayWrite 3 V.1.1 (3.5in) to DisplayWrite 4	W/D
9918	Upgrade DisplayWrite 3 V.1.0 (5.25in) to DisplayWrite 4	W/D
9919	Upgrade DisplayWrite 3 V.1.0 (3.5in) to DisplayWrite 4	W/D
6070 A	DisplayWrite Index Support (index, table of contents for DW3 and DW4)	125
4190 A	IBM PC DisplayWrite Legal Support	179

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MODEL/FC VPA	DESCRIPTION	PRICE		
4197 A	IBM PC DisplayWrite Medical Support	179	5398 A WordStar 2000 Plus (5.25in) *	495
S126-4050	DisplayWrite 2 template for use on 3270-PC	.30	5399 A WordStar 2000 Plus (3.5in) *	495
5799-BKE	Host-DisplayWriter Document Interchange (HDDI)			
2105	Initial License Charge	1165		
	Monthly Charge	265		
<u>MICROPRO SERIES</u>			<u>IBM PERFORMANCE TOOLS</u>	
			5799-PEY IBM Personal Computer PLAN/36 Performance Tool (supports S/36, S/38 and the Token Ring Network) (5.25in)	150

As of September 20, 1988

MODEL/FC VPA	DESCRIPTION	PRICE
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SUPPORT PUBLICATIONS

SUPPORT PUBLICATIONS - POLICY

Publications listed below as no charge (N/C) are typically free when ordered in reasonable quantities from your IBM Marketing Representative.

ZE22-7025	Now that you have a PC, Personal Computing means Personal Involvement	N/C
ZE22-7026	Software Guidelines for PC Users	N/C
GX20-2430	Information Systems Security: Executive Checklist	N/C
G320-9280	Good Security Practices for Personal Computers	N/C
G320-9295	Good Security Practices for Control of Off-Site Terminals and Software Usage	N/C
G321-0077	IBM Systems Journal, Vol.23, No.3, 1984 (Issue dedicated to articles on workstations)	N/C
SH19-6265	Implementation Guide for an Information Centre	19.50
G320-0147	Technical Coordinator's Guide to Training the End User	N/C
G320-0152	Technical Coordinator's Guidelines	N/C
G320-0151	Administrative Tools for the Technical Coordinator	N/C
G520-5024	Role of a Workstation Resource Center	N/C
G320-0772	Workstation Resource Center Planning and Implementation Guide	N/C

SUPPORT PUBLICATIONS - MANAGING END USER COMPUTING

These modules are intended for presentation by IBM Marketing Representatives as part of IBM's structured planning methodology. They are to be used in the context of a joint IBM-customer

program for the development of end-user computing.

Publications listed below as no charge (N/C) are typically free when ordered in reasonable quantities from your IBM Marketing Representative.

GBOF-1689	Bill of Forms for Managing End-User Computing Series, orders all N/C manuals listed below	N/C
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EXECUTIVE DIRECTION

G520-4233	Executive Brochure	N/C
G320-0735	Presentation Guide	N/C
G320-0736	Assessment Guide	N/C
GV21-5007	Videodisc	130
ZV20-8537	Videotape	N/C
G320-0693	Presenter's Guide	N/C
G520-5037	Facts Folder	N/C

SUPPORT ORGANIZATION

G320-0737	Presentation Guide	N/C
G320-0738	Assessment Guide	N/C

PLANNING FOR USER NEEDS

G320-9301	Presentation Guide	N/C
G320-9302	Assessment Guide	N/C
G320-9303	Implementation Guide	N/C

JUSTIFICATION

G320-9284	Presentation Guide	N/C
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Support Publications

As of September 20, 1988

MODEL/FC VPA	DESCRIPTION	PRICE				
G320-9285	Assessment Guide	N/C		G320-9314	IBM PC Seminar Proceedings V.2.6--TopView	N/C
G320-9286	Implementation Guide	N/C		G320-9315	IBM PC Seminar Proceedings V.2.7--Professional Debug Facility	N/C
G320-9287	User's Guide	N/C		G320-9319	IBM PC Seminar Proceedings V.2.8--PC Network SMB Protocol	N/C
<u>WORKSTATION MANAGEMENT</u>				G320-9316	IBM PC Seminar Proceedings V.2.9--IBM PC Xenix	N/C
G320-0716	Presentation Guide	N/C		G320-9317	IBM PC Seminar Proceedings V.2.10--Graphical Kernel System, File System, Plotting System, Professional FORTRAN, Data Acquisition Adapter, GPIB Adapter	N/C
G320-0721	Assessment Guide	N/C		G320-9318	IBM PC Seminar Proceedings V.2.11--Enhanced Graphics Adapter	N/C
<u>ACCESS TO DATA</u>				G320-9320	IBM PC Seminar Proceedings V.3.1--PC Information Panel (3295)	N/C
G320-9366	Presentation Guide	N/C		G320-9321	IBM PC Seminar Proceedings V.3.2--BASIC Compiler 2.0, memory information, modular programming, ISAM files, library manager	N/C
G320-9367	Assessment Guide	N/C		G320-9322	IBM PC Seminar Proceedings V.3.3--IBM PC C Compiler	N/C
<u>SUPPORT PUBLICATIONS - PC SEMINAR PROCEEDINGS</u>				G320-9323	IBM PC Seminar Proceedings V.3.4--IBM Asynchronous Communication Server Protocol	N/C
	Publications listed below as no charge (N/C) are typically free when ordered in reasonable quantities from your IBM Marketing Representative.			G320-9324	IBM PC Seminar Proceedings V.3.5--IBM PC Voice Communications Option	N/C
G320-9307	IBM PC Seminar Proceedings V.1.2--DOS 2.0 and 1.1 Comparison, 8087, Compatibility Guidelines, Macro Assembler	N/C		G320-9325	IBM PC Seminar Proceedings V.4.1--IBM PC Xenix V.2	N/C
G320-9308	IBM PC Seminar Proceedings V.1.3--DOS 2.1, 2.0, and 1.1 compared, PCjr Architecture and Compatibility, Cartridge BASIC, Personal Communication Mgr	N/C		G320-9326	IBM PC Seminar Proceedings V.4.1--IBM PC System Extensions (incl. DOS 3.2, LAN 1.1, PC 3270 Emulation V.2), IBM PC Enhanced Keyboard	N/C
G320-9309	IBM PC Seminar Proceedings V.2.1--Software support center, International compatibility requirements, PC Cluster Program	N/C		G320-9327	IBM PC Seminar Proceedings V.4.3--IBM PC Convertible	N/C
G320-9310	IBM PC Seminar Proceedings V.2.2--Software support center, International compatibility requirements, PC Cluster Program IBM PC Cluster	N/C		G360-2697	IBM PC Seminar Proceedings V.4.4--IBM PC Interfaces, PC 3270 Presentation Space API, Advanced Program-to-Program Commo., Document Content Architecture, Enhanced Connectivity Facil., Interrupt Sharing	N/C
G320-9311	IBM PC Seminar Proceedings V.2.3--PC Cluster, PCjr Cartridges, Sort 1.00, FORTRAN 1.00, Pascal 2.00	N/C		<u>SUPPORT PUBLICATIONS - OPTIONS AND ADAPTERS TECHNICAL REFERENCE</u>		
G320-9312	IBM PC Seminar Proceedings V.2.4--PC/AT Architecture and Compatibility, DOS 3.0	N/C		The following manual covers these options and adapters:		
G320-9313	IBM PC Seminar Proceedings V.2.5--IBM PC Network Overview, Hardware, NETBIOS, and Program	N/C		Expansion Unit Monochrome Display Color Display Monochrome Display/Printer Adapter Color Graphics Monitor Adapter		

As of September 20, 1988

MODEL/FC VPA	DESCRIPTION	PRICE
	Color Printer	3075 a
	Compact Printer	
	Parallel Printer Adapter	
	5.25in Diskette Drive	512KB/2MB Memory Expansion) (order via PCTB)
	5.25in Diskette Drive Adapter	SS34-0008
	Asynchronous Communications Adapter	Options and Adapters (256KB Memory Expansion and Type 3 Diskette Drive) (order via PCTB)
	Fixed Disk Drive Adapter	3215
	64/256KB Memory Option	Update Options And Adapters (PC/XT 286 Fixed Disk and Diskette Drive Adapter) (order via PCTB)
	Slimline Diskette Drive	3208
	Graphics Printer	Update Options And Adapters (20MB Fixed Disk Drive for PC/XT models 286, 268, 278, 089) (order via PCTB)
	SDLC Adapter	SS34-0011
	Cluster Adapter	Options and Adapters (Voice Communications Adapter) (order via PCTB)
	Game Control Adapter	S229-9606
	10MB Fixed Disk Drive	Options and Adapters Binder (order via PCTB)
	Bisynchronous Communications Adapter	
2509 a	IBM PC Options and Adapters Technical Reference Manual, Base (order via PCTB)	125
SS34-0007	Options and Adapters (Enhanced Graphics Adapter and Display) (order via PCTB)	13
SS34-0009	Options and Adapters (Engineering/Scientific, including Data Acq. Controller, Prof. Graphics Controller, GPIB Card) (order via PCTB)	34
SS34-0010	Options and Adapters (PC/AT adapters, including Serial/Parallel, Fixed Disk, Diskettes, 128KB Memory, 512KB Memory) (order via PCTB)	13.25
3090 a	Update Options and Adapters (3.5in Internal Diskette Drive) (order via PCTB)	5.95
3091 a	Update Options and Adapters (20MB Fixed Disk Drive)	5.95
3092 a	Update Options and Adapters (20MB Fixed Disk Adapter, XT models 089, 268, 278) (order via PCTB)	5.95
SS34-0012	Options and Adapters (30MB Fixed Disk Drive) (order via PCTB)	5.95
9945	Options and Adapters (4865-001 and -002, 3.5in external diskette drive) (order via PCTB)	5.95
9946	Update Options and Adapters (4865 -001 and -002, 3.5in external diskette drive adapter) (order via PCTB)	5.95
3093 a	Options and Adapters (Half-Height 5.25in Diskette Drive, PC and PC/XT) (order via PCTB)	5.95
3544 a	Options and Adapters (PC/AT 128/640KB Memory Expansion) (order via PCTB)	5.95
<u>SUPPORT PUBLICATIONS - HARDWARE MAINTENANCE AND SERVICE</u>		
	3087 a	Hardware Maintenance & Service (Manual and Advanced Diagnostic Diskette) PC, PC/XT, PC/AT, Portable (order via PCTB)
		195
	3063 a	Update Hardware Maintenance & Service (3.5in Internal Diskette) (order via PCTB)
		5.95
	3109 a	Update Hardware Maintenance & Service (640KB motherboard PC/XT models 089, 268, 278) (order via PCTB)
		9.95
	3100 a	Update Hardware Maintenance & Service (8MHz motherboard PC/AT model 339) (order via PCTB)
		9.95
	3370 a	Hardware Maintenance and Service Supplement - 3270-PC/AT
		65.75
	3008 a	Hardware Maintenance and Service Supplement - 5171T PC/AT
		4
	0111	Update Hardware Maintenance & Service (4865 -001 and -002, 3.5in external diskette drive) (order via PCTB)
		10
	59X9964	Update Hardware Maintenance & Service (Convertible Speech Adapter)
		??
	8018 a	Hardware Maintenance and Service - Multiprotocol Communications Adapter
		15.50
	8024 a	Hardware Maintenance and Service - PC/AT Store Loop Adapter
		17
	3211	Hardware Maintenance and Service Update - PC/XT 286 (order via PCTB)
		9.95
	S229-9605	Hardware Maintenance and Service Binder (order via PCTB)
		7.60

Support Publications

As of September 20, 1988

MODEL/FC VPA	DESCRIPTION	PRICE
<u>SUPPORT PUBLICATIONS - HARDWARE MAINTENANCE REFERENCE</u>		
3088 a	Hardware Maintenance Reference (removal, replacement, adjustment instructions for PC, XT, AT, Portable) (order via PCTB)	150
3064 a	Update Hardware Maintenance Reference (3.5in Internal Diskette) (order via PCTB)	5.95
3108 a	Update Hardware Maintenance Reference (640KB motherboard PC/XT models 089, 268, 278) (order via PCTB)	5.95
3110 a	Update Hardware Maintenance Reference (8MHz motherboard PC/AT model 339) (order via PCTB)	5.95
0112	Update Hardware Maintenance Reference (4865 -001 and -002, 3.5in external diskette drive) (order via PCTB)	10
3212	Update Hardware Maintenance Reference (PC/XT 286 systems) (order via PCTB)	9.95

SUPPORT PUBLICATIONS - TECHNICAL REFERENCE MANUALS

0070 a	Technical Reference Manual - IBM PC/AT model 239 and 8MHz motherboard system units (order via PCTB)	105
3099 a	Technical Reference Manual Update (Update 3099/6280099 for 8MHz motherboard PC/ATs, esp. m339) (order via PCTB)	49.75
3007 a	Technical Reference Manual Supplement - 5171T PC/AT	5.25
59X9965	Technical Reference Manual Update (Convertible Speech Adapter)	??
8017 a	Technical Reference Manual - Multiprotocol Communications Adapter	11

SUPPORT PUBLICATIONS - OTHER

Publications listed below as no charge (N/C) are typically free when ordered in reasonable quantities from your IBM Marketing Representative.		
0956 a	IBM PC DOS 3.3 Technical Reference Manual	85
6690 a	DOS 1.1 Reference Manual (spiral bound)	20
6280107	System Extension Installation and Planning Guide	N/C
6691 a	BASIC 1.1 Reference Manual (spiral bound)	29.75
5010 a	BASIC 1.1 Reference Manual and binder	29.75
4702	IBM PCjr BASIC Reference Manual	11.25
GC20-8210	A Guide to IBM Personal Computers	N/C
6698 a	THE GUIDE to Personal Computer Offerings (also ordered as G520-0059)	3
G570-2091	Guide to Learning: Resources for Users of IBM Personal Computers	4.95
GC34-0588	Engineering and Scientific Programs for the IBM PC from non-IBM Sources	N/C
2229 a	Logo: Programming with Turtle Graphics	24
G320-9429	Workstation Positioning and Differentiation Reference Summary	N/C
GC20-8203	An Introduction to Local Area Networks	N/C
G320-0108	Local Area Networks: A Review	N/C
G520-5031	Positioning Local Area Networks (Differentiation of Cabling System, PC Network, Industrial LAN)	N/C
G321-5182	A Token-Ring Network for Local Data Communications (Reprint of Systems Journal V.22 N.1, 1983)	N/C

As of September 20, 1988

MODEL/FC VPA DESCRIPTION PRICE

OTHER SOFTWARE

CP/M-86

4035 A CP/M-86 Operating System by Digital
Research, Inc. 259

9939 A IBM PC Xenix Software Development
System V.2 (incl. publications listed
below) Warranted, Central Service 6
mo. notice or to 10/87 (W/D 9/23/88) 599

SV21-8078 IBM PC Xenix Software Development
System V.2 Documentation Volume 1 34

SV21-8079 IBM PC Xenix Software Development
System V.2 Documentation Volume 2 40.25

UNIX DIALECTS

9941 A IBM PC Xenix Text Formatting System
V.2 (incl. publication listed below)
Warranted, Central Service 6 mo.
notice or to 10/87 (W/D 9/23/88) 199

PC/INTERACTIVE EXECUTIVE

9358 A PC/Interactive Executive (UNIX-like)
V.1.1 by Interactive Systems,
Warranted (W/D 9/23/88) 989

SV21-8080 IBM PC Xenix Text Formatting System
V.2 Guide 23.75

6135 A PC Interface for IBM IX/370 ??

For associated hardware, see -- Heading id 's1hw' unknown --.
For associated Series/1 applications, see your IBM Marketing
Representative.

IBM PC XENIX FOR THE PC/AT

9932 A IBM PC Xenix V.2 (incl. publications
listed below) Warranted, Central
Service 6 mo. notice or to 10/87 (W/D
9/23/88) 599

SV21-8074 Xenix V.2 Documentation, Volume 1 34

SV21-8075 Xenix V.2 Documentation, Volume 2 38.50

SV21-8076 Xenix V.2 Documentation, Volume 3 81.50

SV21-8077 Xenix V.2 Documentation, Volume 4 45.25

9943 A IBM PC Xenix Operating System
Extensions V.1.0 Warranted, Central
Service 6 mo. notice or to 10/87 (W/D
9/23/88) 475

SV21-8081 Using INed 19

SV21-8086 Using INmail/INnet/ftp/Connect 24.50

SN20-9782 Operating Systems Extensions User's
Guide 17.75

These programs are eligible for volume
license discounting under the IBM
Series/1 Licensed Program Exhibit.

5719-EM1 IBM Series/1 Input Output Executive
(Provides PC device support for EDX
and RPS), Warranted, Central service 6
mo. notice or to 3/88

9737 Asset registration 715

2154 Media distribution and process charge
V.1.1 40

EDX on the 4950 is supported for
application execution only.
Application development under EDX on
the 4950 is not supported.

Other Software

As of September 20, 1988

MODEL/FC VPA	DESCRIPTION	PRICE			
5719-XJ5	IBM Series/1 Event Driven Executive for the IBM Series/1 4950 System Unit (Requires Series/1 I/O Executive), Warranted, Central service to 3/88		5559	9/6250 bpi tape	N/C
			4650	One Time Charge Option	2000
			4651	Monthly Charge Option	135
9764	Asset registration	750			
2098	Media distribution and process charge, Version 5.1	21	4175	A IBM Virtual Machine/Personal Computer V.1.1 ** (Incl. user's guide, VMPCSERV, support for AT/370, 3278/9 emul.), Warranted, Central service to 12/86	1150
2177	Media distribution and process charge, Version 5.2	21			
	RPS on the 4950 is supported for application execution only. Application development under RPS on the 4950 is not supported.		SC24-5254	VM/PC User's Guide (additional copy)	25
			4176	VM/PC 1.1 Primer	18
			G320-0576	Example of an Interface Between VM/PC CMS and a Native Input/Output Device (Interfacing VM/PC to a PC plotter, etc.)	N/C
5719-PJ7	IBM Series/1 Realtime Programming System for the IBM Series/1 4950 System Unit (Requires Series/1 I/O Executive), Warranted, Central service to 3/88		4174	VM/PC Primer	18
9766	Asset registration	2800	5798-DTL	TSO Host Server for PC/370 (TSOSERV), Central service to 7/86	2420
2122	Media distribution and process charge, Version 7.1	73	5799-CEE	VM/PC Toolkit-Base for the AT/370 (PRPQ P81010, CMS program I/O to PC graphics devices, async VMPCSERV, program to program communication with PC DOS programs)	405
2175	Media distribution and process charge, Version 7.2	73	5799-CED	VM/PC Toolkit-Host Programs for the AT/370 (PRPQ P81011, Async VMPCSERV on tape, Host REXX bindings in VDI syntax to GDDM)	500
5776-DAF	Telex Interface Program/PC (TXIP/PC) Allows Series/1 5170 to act as telex traffic node with up to 4 telex I/O lines and one DTNL host line (FC9001, 4003, 2000), Central service to 3/89	7000	5799-CEC	VM/PC Toolkit-VDI Graphics for the AT/370 (PRPQ P81014, High-level language bindings to VDI for VS FORTRAN, Pascal/VIS, REXX, Assembler H for VM/PC programs)	460
<u>VM/PC</u>			SC28-1391	TSOSERV Program Description and Operations	4.50
For associated hardware, see "Processors - PC/XT/370 and PC/AT/370 Versions" on page 41.			SC28-1390	TSOSERV User's Guide	4.50

VM/PC OPERATING SYSTEM

IBM PC/XT/370 LICENSE OPTION AMENDMENT WITH FEATURE NUMBERS

7040	A IBM Virtual Machine/Personal Computer V.2.01 for PC/AT/370 ** (Incl. TR LAN support, APL char set, spool RDR/PUN/CON), Warranted, Central service 6 mo. notice or to 12/87	1150	SC26-4120	VM/PC System/370 Language Supplement (Compiler implementation under VM/PC)	6
7041	VM/PC 2 Primer	25	5668-899	APL2 (not for development, APL character set not supported)	
5664-319	IBM VM/PC Host Server V.2 (VMPCSERV) Warranted, Central Service to 12/87		3020	Monthly Charge Option	49
9001	Asset Registration	N/C	3021	One-Time Charge Option	735
5558	9/1600 bpi tape	N/C	5748-AP1	VS APL (not for development, APL character set not supported)	
			3011	Monthly Charge Option	49
			3012	One-Time Charge Option	735

Other Software

As of September 20, 1988

MODEL/FC VPA	DESCRIPTION	PRICE
5740-M52	S/370 Automatically Programmed Tool (APT) Intermediate Contouring	
3011	Monthly Charge Option	50
3012	One-Time Charge Option	1000
5740-M53	S/370 Automatically Programmed Tool (APT) Advanced Contouring	
3013	Monthly Charge Option	75
3014	One-Time Charge Option	1500
5668-962	Assembler H	
3002	Monthly Charge Option	9
3011	One-Time Charge Option	432
5664-185	High-Accuracy Arithmetic (ACRITH) Subroutine Library Release 2	
3002	One-Time Charge Option	150
5668-996	IBM BASIC Processor and Library	
3003	Monthly Charge Option	21
3012	One-Time Charge Option	1008
5668-795	CICS/CMS Release 1	
	Monthly Charge Option	50
	One-Time Charge Option	900
5740-CB1	OS/VS COBOL Compiler and Library	
3006	Monthly Charge Option	19
3008	One-Time Charge Option	912
5740-LM1	OS/VS COBOL Library	
3007	Monthly Charge Option	6
3009	One-Time Charge Option	288
5734-CB4	COBOL Interactive Debug	
3003	Monthly Charge Option	21
3004	One-Time Charge Option	1008
5748-XXB	DMS/CMS	
3005	Monthly Charge Option	4
3009	One-Time Charge Option	144
5748-XX9	Document Composition Facility	
3003	Monthly Charge Option	18
3008	One-Time Charge Option	864
5798-PXJ	Dynamic Simulation Language/VS	
3045	Monthly Charge Option	45
3044	One-Time Charge Option	1000
5799-BTB	Elementary Math Library PRPQ #P81005	
3035	One-Time Charge Option	30
5748-F03	VS FORTRAN Compiler and Library	
3000	Monthly Charge Option	17
3006	One-Time Charge Option	816
5748-LM3	VS FORTRAN Library	
3001	Monthly Charge Option	4
3007	One-Time Charge Option	192
5668-903	VS FORTRAN Interactive Debug	
3006	Monthly Charge Option	24
3010	One-Time Charge Option	1152
5668-011	IIAS	
3008	Monthly Charge Option	60
3013	One-Time Charge Option	1890
5668-012	IIPS	
	3009 Monthly Charge Option	18
	3014 One-Time Charge Option	604
5748-MS1	VM/IPF (FLIST and BROWSE functions)	
3004	Monthly Charge Option	4
3010	One-Time Charge Option	196
5668-960	ISPF	
3007	Monthly Charge Option	10
3015	One-Time Charge Option	660
5664-172	ISPF/PDF (no disconn. virt. mach.)	
3000	Monthly Charge Option	17
3001	One-Time Charge Option	1085
5740-XM3	MPSX/370 incl.MIP/370	
3015	Monthly Charge Option	62
3016	One-Time Charge Option	1250
5796-PNQ	Pascal/VS	
3025	Monthly Charge Option	11
3028	One-Time Charge Option	554
5734-PL3	PL/I Optimizing Compiler and Lib.	
3000	Monthly Charge Option	21
3005	One-Time Charge Option	1008
5734-LM5	PL/I Transient Library	
3001	Monthly Charge Option	4
3006	One-Time Charge Option	192
5734-LM4	PL/I Resident Library	
3002	Monthly Charge Option	4
3007	One-Time Charge Option	192
5798-BDW	CMS Sort for VM/CMS & Extensions	
3037	One-Time Charge Option	132
5664-189	STAIRS/CMS	
3003	Monthly Charge Option	30
3004	One-Time Charge Option	660
5798-DYF	The Information Facility (TIF) V.2	
3047	Monthly Charge Option	50

AS/400 PC SUPPORT

Reference ivory #288-297 for more information.
 5728-PC1 Provides PC support for the AS/400 System. N/A

4680 OPERATING SYSTEM

See also "IBM SolutionPac Offerings" on page 15 for the Store Installation Services offering, which incorporates some of the following products.

The following items are discounted via the Volume License Amendment for IBM Store Systems Licensed Programs.

As of September 20, 1988

MODEL/FC VPA	DESCRIPTION	PRICE			
5669-033	4680 Operating System for 5170 Point-of-Sale (based on Concurrent DOS-286, specify FC 9001, 4606, and 5898) ** Warranted, Central Service 6 mo. notice	1250		5601-192	4680 Operating System V.2 Multiple Controller Feature (Basic License-Upgrade from V.1) (9/30/88)
				4684	One-Time Charge
5601-192	4680 Operating System V.2 (supports multi-tasking, multi-user environments, optional multiple controller and 3270 emulation) ** (Basic License) (9/30/88) Warranted, Central Service 6 mo. notice			5601-192	4680 Operating System V.2 Multiple Controller Feature (Additional License-Upgrade from V.1) (9/30/88)
9001	Asset Registration	N/C		4704	One-Time Charge
4679	One-Time Charge	2100		5601-192	4680 Operating System V.2 3270 Emulation Feature (Basic License) (9/30/88) Warranted, Central Service 6 mo. notice
5181	Media Selection (3.5in diskettes)	N/C		4681	One-Time Charge
5182	(Remote Installation) Media Selection (3.5in diskettes)	N/C		5185	Media Selection (3.5in diskettes)
5898	Media Selection (5.25in diskettes)	N/C		5858	Media Selection (5.25in diskettes)
5838	(Remote Installation) Media Selection (5.25in diskettes)	N/C		5601-192	4680 Operating System V.2 3270 Emulation Feature (Additional License) (9/30/88) Warranted, Central Service 6 mo. notice
5601-192	4680 Operating System V.2 (Additional License) (9/30/88)			4689	One-Time Charge
9002	Asset Registration (No media provided)	N/C		7002	Program Directory
4686	One-Time Charge (with documentation)	2050		5601-192	4680 Operating System V.2 3270 Emulation Feature (Basic License-Upgrade from V.1) (9/30/88)
7001	Documentation	N/C		4685	One-Time Charge
4687	One-Time Charge (no documentation)	2000		5601-192	4680 Operating System V.2 3270 Emulation Feature (Additional License-Upgrade from V.1) (9/30/88)
5601-192	4680 Operating System V.2 (Basic License-Upgrade from V.1) (9/30/88)			4705	One-Time Charge
4683	One-Time Charge (with documentation)	600		7002	Program Directory
5601-192	4680 Operating System V.2 (Additional License-Upgrade from V.1) (9/30/88)			5601-192	4680 Operating System V.2 Message Guide Diskette (12/30/88)
4702	One-Time Charge (with documentation)	550		4682	One-Time Charge
4703	One-Time Charge (no documentation)	500		6005	Media Selection (3.5in diskettes)
5601-192	4680 Operating System V.2 Multiple Controller Feature (Basic License) (9/30/88) Warranted, Central Service 6 mo. notice			6004	Media Selection (5.25in diskettes)
4680	One-Time Charge	820		5669-033	4680 Operating System V.1.3 for 5170 Point-of-Sale (supports new features announced 12/15/87) ** Warranted, Central Service 6 mo. notice
5183	Media Selection (3.5in diskettes)	N/C		5669-033	4680 Operating System V.1.2 for 5170 Point-of-Sale (supports 2nd loop adapter, PC Network) ** Warranted, Central Service 6 mo. notice
5184	(Remote Installation) Media Selection (3.5in diskettes)	N/C		9001	Asset Registration
5888	Media Selection (5.25in diskettes)	N/C			
5848	(Remote Installation) Media Selection (5.25in diskettes)	N/C			
5601-192	4680 Operating System V.2 Multiple Controller Feature (Additional License) (9/30/88)				
4691	One-Time Charge	800			

Other Software

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4606	One-Time Charge	1500	9001	Asset Registration	N/C
5898	Media Selection (5.25in diskettes)	N/C	4091	One-Time Charge	350
4642	Multiple-Controller Feature, One-Time Charge	800	5195	Media Selection (3.5in diskettes) (9/30/88)	N/C
5888	Multiple-Controller Feature, Media Selection (5.25in diskettes)	N/C	5858	Media Selection (5.25in diskettes)	N/C
4093	3270 Emulation feature for the 4680 Operating System ** Warranted, Central Service 6 mo. notice	1050	4092	Optional Source Code, One-Time Charge	4000
5669-034	IBM 4680 BASIC (based on CB86, LINK-86, and LIB-86, specify FC 9001, 4607, and 5898) ** Warranted, Central Service 6 mo. notice	2500	7868	Optional Source Code, Media Selection (3.5in diskettes) (9/30/88)	N/C
5669-034	IBM 4680 BASIC V.1.2 (supports 12/15/87 announcements, specify FC 9001, 4607, and 5898) ** Warranted, Central Service 6 mo. notice		7858	Optional Source Code, Media Selection (5.25in diskettes)	N/C
4607	One-Time Charge	2500	7041	General Sales Application Terminal Offline Feature Program Reference (first copy)	N/C
5065	Media Selection (3.5in diskettes) (9/30/88)	N/C	8005	General Sales Application Terminal Offline Feature Program Reference (additional copies)	5.60
5898	Media Selection (5.25in diskettes)	N/C		Price Management Application Feature Warranted, Central Service 6 mo. notice (10/28/88)	
5601-101	IBM 4680 Support for COBOL (Supports applications written in IBM COBOL/2) ** Warranted, Central Service 6 mo. notice		4026	One-Time Charge	1050
4544	One-Time Charge	345	5194	Media Selection (3.5in diskettes)	N/C
5065	Media Selection (3.5in diskettes) (9/30/88)	N/C	5888	Media Selection (5.25in diskettes)	N/C
5898	Media Selection (5.25in diskettes)	N/C	5669-032	IBM 4680 Supermarket Application ** Warranted, Central Service 6 mo. notice	N/C
5669-031	IBM 4680 General Sales Application (written in 4680 BASIC) ** Warranted, Central Service 6 mo. notice		9001	Asset Registration	N/C
9001	Asset Registration	N/C	4605	One-Time Charge	2500
4604	One-Time Charge	1200	5228	Media Selection (3.5in diskettes) (9/30/88)	N/C
5193	Media Selection (3.5in diskettes) (9/30/88)	N/C	5898	Media Selection (5.25in diskettes)	N/C
5898	Media Selection (5.25in diskettes)	N/C	4643	Optional Source Code, One-Time Charge	12000
4641	Optional Source Code, One-Time Charge	12000	7868	Optional Source Code, Media Selection (3.5in diskettes) (9/30/88)	N/C
7848	Optional Source Code, Media Selection (3.5in diskettes) (9/30/88)	N/C	7898	Optional Source Code, Media Selection (5.25in diskettes)	N/C
7898	Optional Source Code, Media Selection (5.25in diskettes)	N/C	5669-032	IBM 4680 Supermarket Application Offline Feature ** Warranted, Central Service 6 mo. notice	
7040	General Sales Application Program Reference (first copy)	N/C	9001	Asset Registration	N/C
8002	General Sales Application Program Reference (additional copies)	??	4095	One-Time Charge	740
	General Sales Application Terminal Offline Feature Warranted, Central Service 6 mo. notice **		5236	Media Selection (3.5in diskettes) (9/30/88)	N/C
			5888	Media Selection (5.25in diskettes)	
			4094	Optional Source Code, One-Time Charge	4000
			7858	Optional Source Code, Media Selection (3.5in diskettes) (9/30/88)	N/C
			7888	Optional Source Code, Media Selection (5.25in diskettes)	N/C
			7041	Supermarket Application Offline Feature Program Reference (first copy)	N/C

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5669-212	IBM 4680 Chain Drug Sales Application (written in 4680 BASIC) ** Warranted, Central Service 6 mo. notice			4641	Inventory Control Feature 450
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4660	One-Time Charge	1000		9001	Asset Registration N/C
5197	Media Selection (3.5in diskettes) (9/30/88)	N/C		4430	One-Time Charge 25000
5898	Media Selection (5.25in diskettes)	N/C		5195	Media Selection (3.5in diskettes) N/C
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4832 A	IBM PC Bouncy Bee Learns Letters, LAN Package (3.5in)	420	4136 A	LOGO Learner (5.25in)	110
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4537 A	IBM PC Bouncy Bee Learns Words, LAN Package (5.25in)	420	4507 A	Missing Letters (3.5in)	50
4833 A	IBM PC Bouncy Bee Learns Words, LAN Package (3.5in)	420	4530 A	Missing Letters, LAN Package (5.25in)	300
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4768 A	Get Set for Writing to Read (Kit, contains Alphabet and Sound Pgms, Manual, Workbooks, Audio Cassettes, etc. for PS/2) (3.5in+5.25in)	295		
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4732 A	Cytology and Histology: Cells and Tissues (3.5in)	65
4658 A	The Environment I: Habitats and Ecosystems (3.5in)	65
4656 A	The Environment II: Cycles and Interactions (3.5in)	65
4649 A	Human Life Processes I: Cellular Physiology (3.5in)	65
4616 A	Human Life Processes II: Systems Level (3.5in)	65
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4661 A	Human Life Processes III: Development and Differentiation School Package (3.5in)	295
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4590 A	The Environment I: Habitats and Ecosystems LAN Package (5.25in)	390
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4814 A	Chemicals of Life III: Proteins and Nucleic Acids LAN Package (3.5in)	390
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4827 A	The Environment I: Habitats and Ecosystems LAN Package (3.5in)	390
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6024771 A	Primary Editor Plus (LAN Package) (3.5in)	750
<u>IBM INFORMATION SYSTEMS MANAGEMENT INSTITUTE</u>		
GR20-4824	End User and Personal Computing Curriculum	N/C
GR20-4857	IBM Personal Computer Curriculum (combines SRI and ISMI courses)	N/C
P1006	Introduction to IBM Operating System/2 Standard Edition Version 1.0 (1 day) overview of OS/2 Standard Edition	N/C
P1008	IBM Operating System/2 (OS/2) Programming Functions and Procedures (2 days) teaches programming functions available with OS/2 (08/88)	420
P1007	Installation Topics for IBM Operating System/2 Standard Edition Version 1.0 (1 day) information on how to install and configure Operating System/2 Standard Edition	200
P1009	OS/2 Database Manager Workshop teaches purpose and content of a relational data base, specifically the Database manager of OS/2 Extended Edition	465
P1010	OS/2 Database Design and Coding information necessary to produce application programs that manipulate OS/2 data bases	525
G3686	Implementing the OS/2 Communications Manager in the Enterprise (2 1/2 days) information on planning and implementing the Operating System/2 Communications Manager	840
WS195	DisplayWrite 4: Basic Functions Workshop (1 day) introduces user to fundamental word processing functions of DisplayWrite 4	325
WS196	DisplayWrite 4: Advanced Functions Workshop (1 day) introduces user to advanced word processing functions of DisplayWrite 4	250
G3653	Telecommunications Environment (3 days) covering telephony, common carriers, PBX's, voice/data integration	540

Educational Programs

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MODEL/FC VPA	DESCRIPTION	PRICE
G3667	Token-Ring Network Implementation Topics (4 days) covering design, implementation and maintenance of a Token-Ring Network	1120
G4000	Locally Connected Personal Computers (2-1/2 day) for S/36-38, Token-Ring, PC Net, Rolm CBX connect	850
G4004	PC 3270 Emulation Advanced Products (2 days, Covers PC 3270 Emulation Program V.2, V.3)	540
G4005	Asynchronous Communications for the PC (2 days)	470
B3819	Implementing Graphics in a GDDM Host-Local Environment (2-1/2 day) for 3179/G, 3270-PC, GGXA, etc.	700
G3611	Token-Ring Network Implementation and Management (3-1/2 days)	770
G3667	Token-Ring Network Implementation Topics (2-1/2 days) (Physical planning, customizing, and problem determination, lecture-only version of G3611, prereq. 32297 or 33001)	600
G3669	ECF Facilities and Planning (1 day) (overview of ECF architecture, installation and planning the communication environment, prereq. G4001)	600
G4007	Local Area Network (LAN) Workstation Software Implementation (3 days) (Planning, tuning, and managing PC LAN Program and PC 3270 Emulation Program, prereq. 32297 or 33001)	720
G4006	LAN Workstation Performance Workshop (2 days) (Tuning PC LAN Program and PC 3270 Emulation Program, prereq. is G4007 or G3636)	480
Q1003	AIX Communications on the RT PC (4 1/2 days)	1375
B3821	IBM System/36 Office Using IBM PC's (3 day, DW3, PS/36, DW/36)	660
Y6068	Introduction to the IBM 4680 Store System (1/2 day)	N/C
E3622	Planning and Installing the IBM 4680 Sales Application (8 days)	2080
E3623	Programming the IBM 4680 General Sales Application (10 days)	3300

W9949	Information Center Consulting (2-1/2 day)	675
Y6201	InfoWindow Product Overview (1 day)	N/C
E3646	Video/Passage Authoring Class (3 day)	660
E3647	InfoWindow Application Workshop (7 day)	2800
E3668	InfoWindow Presentation System Authoring Workshop (3 day)	720
E3653	Learning System/1 (LS/1) Authoring Workshop (4-1/2 day)	1080
Q1004	AIX Fundamentals Workshop (4 days)	760
Q1005	AIX PS/2 Installation and Implementation (3 1/2 days) (9/88)	840

SCIENCE RESEARCH ASSOCIATES - LEASED COURSES

	Many SRA courses are available through the IBM Guided Learning Centers at IBM Branch Offices at a charge per half day attended.	
32273	Personal Computing Concepts - Videotape	175
32275	Programming the IBM Personal Computer	125
Z2275	Programming the IBM Personal Computer (via GLC attendance at current half-day rate)	
32276	Business Programming in BASIC	125
Z2276	Business Programming in BASIC (via GLC attendance at current half-day rate)	
32279	Advanced File Processing in BASIC	125
Z2279	Advanced File Processing in BASIC (via GLC attendance at current half-day rate)	
32280	Advanced BASIC Programming Techniques	125
Z2280	Advanced BASIC Programming Techniques (via GLC attendance at current half-day rate)	
34552	IBM Personal Computer Architecture	150
32298	The IBM Personal Computer Advanced Technology	150
32281	Using IBM DisplayWrite 2	200

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MODEL/FC VPA	DESCRIPTION	PRICE		DESCRIPTION	PRICE
32284	Using IBM DisplayWrite 3 Upgrade 'Using IBM DisplayWrite 2' course to 'Using IBM DisplayWrite 3' course	250 50		32403 UNIX Operating System: Files and Directories (12 month lease)	1100
				Z2403 UNIX Operating System: Files and Directories (via GLC attendance at current half-day rate)	
32266	Document Exchange: DisplayWrite 3 and System/36	90		32404 UNIX Operating System: Text Formatting (60 day lease)	415
Z2266	Document Exchange: DisplayWrite 3 and System/36 (via GLC attendance at current half-day rate)			32404 UNIX Operating System: Text Formatting (12 month lease)	750
				Z2404 UNIX Operating System: Text Formatting (via GLC attendance at current half-day rate)	
P1002	Discover/DOS Introduction and Operations for IBM PC and IBM PS/2 (via GLC attendance at current half-day rate)			32405 UNIX Operating System: System Administration (60 day lease)	605
P1003	Discover/DOS Implementation for IBM PC and IBM PS/2 (via GLC attendance at current half-day rate)			32405 UNIX Operating System: System Administration (12 month lease)	1100
				Z2405 UNIX Operating System: System Administration (via GLC attendance at current half-day rate)	
32271	Using the IBM Personal Computer and DOS	90		32406 UNIX Operating System: Shell Programming (60 day lease)	605
32299	The IBM Personal Computer DOS (publication SR21-0572)	125		32406 UNIX Operating System: Shell Programming (12 month lease)	1100
				Z2406 UNIX Operating System: Shell Programming (via GLC attendance at current half-day rate)	
32278	Using the Lotus 1-2-3 Program	90		32407 UNIX Operating System: Program Development Tools (60 day lease)	605
32292	Developing Computer-Based Training with PC PILOT	250		32407 UNIX Operating System: Program Development Tools (12 month lease)	1100
32274	Using the WordStar Program	90		Z2407 UNIX Operating System: Program Development Tools (via GLC attendance at current half-day rate)	
32295	The IBM Personal Computer Network	175			
Z2295	The IBM Personal Computer Network (via GLC attendance at current half-day rate)			32153 308X Hardware Operator Training (12-mo. lease)	950
34550	Installation of Personal Services/PC with DISOSS	150		Z2153 308X Hardware Operator Training (via GLC attendance at current half-day rate)	
32401	UNIX Operating System: Introduction (60 day lease)	605			
32401	UNIX Operating System: Introduction (12 month lease)	1100		32151 3090 Hardware Operator Training (12-mo. lease)	950
Z2401	UNIX Operating System: Introduction (via GLC attendance at current half-day rate)			Z2151 3090 Hardware Operator Training (via GLC attendance at current half-day rate)	
32402	UNIX Operating System: Editing and Printing (60 day lease)	605			
32402	UNIX Operating System: Editing and Printing (12 month lease)	1100		32192 MVS/SP Operator Training (60-day lease)	495
Z2402	UNIX Operating System: Editing and Printing (via GLC attendance at current half-day rate)			32192 MVS/SP Operator Training (12-month lease)	1250
32403	UNIX Operating System: Files and Directories (60 day lease)	605		32181 Controlling JES2 (30-day lease) (Publication number SR20-8093)	280
				32181 Controlling JES2 (60-day lease)	455

Educational Programs

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MODEL/FC VPA	DESCRIPTION	PRICE
32181	Controlling JES2 (12-month lease)	825
32293	VM/SP Operator Training (60-day lease)	580
32293	VM/SP Operator Training (12-month lease)	1050
32013	VSE/SP Operator Training (60-day lease)	415
32013	VSE/SP Operator Training (12-month lease)	750
32011	VSE/POWER for Operators (60-day lease)	415
32011	VSE/POWER for Operators (12-month lease)	750

TECHNICAL SEMINARS

In addition to education described elsewhere, the following seminars are available for presentation by IBM marketing per-

sonnel to Technical Coordinators and others. The publication numbers listed below are for student materials which would be used by attendees.

Publications listed below as no charge (N/C) are typically free when ordered in reasonable quantities from your IBM Marketing Representative.

G320-0135	PC 3270 Installation and Planning Seminar	N/C
G320-0146	PC/370 Workstations Planning and Installation Seminar	N/C
G320-0119	5520/PC Attachment Seminar	N/C
G320-0161	Local Area Network Concepts Seminar	N/C
G320-0139	IBM Office Information Architecture Seminar	N/C

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MODEL/FC VPA	DESCRIPTION	PRICE
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MUSIC PROGRAMS

9798 A	COMPOSE (uses IBM PC Music Feature, 3.5in+5.25in) *	109.95
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9784 A	PLAYREC (uses IBM PC Music Feature, 3.5in+5.25in) *	77.95
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MODEL/FC VPA DESCRIPTION PRICE

PROCESSORS - RT PC SYSTEM

For associated software, see "IBM RT PC Advanced Interactive Executive (AIX)" on page 117.

The IBM RT Personal Computer is discounted on a separate Volume Procurement Agreement.

The following RT PC system units are floor-standing devices, with enhanced expandability.

6150-020	RT PC System Unit, incl. RISC Processor, RT Keyboard, 1.2MB Diskette, 40MB Fixed Disk and Adapter, 1MB Memory, 2 Async Ports (W/D 10/21/88)	12470
6150-025	RT PC System Unit, incl. RISC Processor, RT Keyboard, 1.2MB Diskette, 70MB Fixed Disk and Adapter, 2MB Memory, 2 Async Ports	14720
6150-A25	RT PC System Unit, incl. RISC Processor, 1.2MB Diskette, 70MB Fixed Disk and Adapter, 2MB Memory, 2 Async Ports, 5080 Attachment (W/D 10/21/88)	16360
6150-T25	RT PC System Unit (TEMPEST), incl. higher-performance RISC Processor and floating-point processor, RT Keyboard, 1.2MB Diskette, 70MB Fixed Disk, EESDI Adapter, 4MB Fast Memory, 2 Async Ports and 6155 Model T01 Extended Monochrome Display (09/88)	30910
6150-125	RT PC System Unit, incl. higher-performance RISC Processor and floating-point processor, RT Keyboard, 1.2MB Diskette, 70MB Fixed Disk, EESDI Adapter, 4MB Fast Memory, 2 Async Ports	16870

6150-135	RT PC System Unit, incl. enhanced Advanced Processor Card and enhanced advanced floating-point processor, RT Keyboard, 1.2MB Diskette, 114MB Fixed Disk, EESDI Adapter, 16MB Fast Memory	30595
6150-B25	RT PC System Unit, incl. higher-performance RISC Processor and floating-point processor, 5080 Attachment, 1.2MB Diskette, 70MB Fixed Disk, EESDI Adapter, 4MB Fast Memory, 2 Async Ports	18510
6150-B35	RT PC System Unit, incl. enhanced Advanced Processor Card and enhanced advanced floating-point processor, 5080 Attachment, 1.2MB Diskette, 114MB Fixed Disk, EESDI Adapter, 16MB Fast Memory	32165
The following RT PC system units are desktop devices, with limited expandability.		
6151-010	RT PC System Unit, incl. RISC Processor, RT Keyboard, 1.2MB Diskette, 40MB Fixed Disk and Adapter, 1MB Memory (no additional disk drives allowed) (W/D 10/21/88)	7900
6151-015	RT PC System Unit, incl. RISC Processor, RT Keyboard, 1.2MB Diskette, 70MB Fixed Disk and Adapter, 2MB Memory (no additional disk drives allowed)	9600
6151-115	RT PC System Unit, incl. higher-performance RISC Processor and floating-point processor, RT Keyboard, 1.2MB Diskette, 70MB Fixed Disk, EESDI Adapter, 4MB Fast Memory (no additional disk drives allowed)	10600

Processors - RT PC System

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MODEL/FC VPA	DESCRIPTION	PRICE				
6151-130	RT PC System Unit, incl. enhanced Advanced Processor Card and enhanced advanced floating-point processor, RT Keyboard, 1.2MB Diskette, 114MB Fixed Disk, EESDI Adapter, 16MB Fast Memory (no additional disk drives allowed)	23220		9332-440	RT PC SCSI Direct Access Storage Device, 400MB, Rack Mount, Also available via monthly rental charge of \$1400	14000
61X6833	Upgrade RT PC models 010, 015, 020, 025, A25 to new processor	2495		9332-450	RT PC SCSI Direct Access Storage Device, 400MB, Standalone, Also available via monthly rental charge of \$1400	14000
	In addition to the options listed below, the RT PC supports the following features. Excepting the Math Co-Processor, all features require an I/O slot for installation.			9822	Cable from RT PC to first 9332 on a signal cable path (specify code on 9332, inc. terminator), 8m	N/C
	<ul style="list-style-type: none"> ▪ 0203 - PC/AT 512KB Memory Option (used with FC 4756) ▪ 0206 - PC/AT High Capacity Diskette Drive ▪ 0207 - PC/AT Dual-Sided Diskette Drive ▪ 0211 - PC/AT Math Co-Processor (used with FC 4756) ▪ 0215 - PC/AT Serial/Parallel Adapter ▪ 0217 - PC/AT Communications Cable ▪ 0242 - PC/AT Serial Adapter Connector ▪ 1200, 1201, 1203 - Enhanced Graphics Adapter and Memory ▪ 2507, 5050 - 3278/79 Emulation Adapter ▪ 4900 - Monochrome Display/Printer Adapter ▪ 5612 - PC Printer Cable 			9827	Cable from RT PC to other 9332s on a signal cable path (specify code on 9332), 1m	N/C
				SA21-9533	IBM 9332 (SCSI) Setting Up Manual	??
				SA21-9534	IBM 9332 (SCSI) Analyzing Problems Manual	??
				SA21-9535	IBM 9332 (SCSI) Reference Code Guide	??
				SY31-0685	IBM 9332 (SCSI) Service Guide	??
				SA21-9532	IBM 9332 (SCSI) Planning Guide	??
				7000	RT PC Small Computer System Interface Adapter for 9332 DASD, Supports attachment of up to 7 9332s	1130
				3468	RT PC Small Computer System Interface Adapter Cable, 8m (additional, prefer specify code 9822 above)	95
				3470	RT PC Small Computer System Interface Device-to-Device Cable, 1m (additional, prefer specify code 9827 above)	75
	4735 40MB Fixed-Disk Drive (maximum 3 drives)	1465		6156-001	IBM 6156 Portable Disk Drive Model 001, RT PC	4595
	3428 PC/AT Fixed-Disk and Diskette Drive Adapter (required if a third Fixed Disk is to be configured, requires FC 8541 and an I/O slot)	681		6156-003	IBM 6156 Portable Disk Drive Model 003, RT PC (9/30/88)	5095
	6941 RT PC 70MB ESDI Fixed-Disk Drive (req. FC6341)	2505		3678	IBM 114MB Portable Disk Drive Module, RT PC	3895
	6341 RT PC ESDI Magnetic Media Adapter (supports 2-FC6941 and 2 diskette drives)	681		3506	IBM Portable Disk Drive Adapter, RT PC 114Mb Selectable Disk Drive Option, RT PC (orderable only with 6151/50 Models 115/125/B25)	1100
	3988 RT PC 70MB Extended ESDI Fixed-Disk Drive (for model 125, B25 only)	2505		4100	IBM Portable Disk Drive Adapter, RT PC 114Mb Selectable Disk Drive Option, RT PC (orderable only with 6151/50 Models 115/125/B25)	4100
	3272 RT PC 114MB Extended ESDI Fixed-Disk Drive (for model 125, B25)	3660		4300	310Mb Selectable Disk Drive Option, RT PC (orderable only with 6151/50 Models 115/125/B25)	4100
	9332-240 RT PC SCSI Direct Access Storage Device, 200MB, Rack Mount, Also available via monthly rental charge of \$850	8500		5300	310Mb Selectable Disk Drive Option, RT PC (orderable only with 6151/50 Models 130/135/B35)	3000
	9332-250 RT PC SCSI Direct Access Storage Device, 200MB, Standalone, Also available via monthly rental charge of \$850	8500		6300	310Mb Selectable Disk Drive Option, RT PC (orderable only with 6156 Models 001/003)	3000
				3310	310Mb Replacement or Additional Drive, RT PC (orderable only with 6151/50 Models 115/130/125/B25/135/B35)	6495

Processors - RT PC System

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MODEL/FC VPA	DESCRIPTION	PRICE				
3272	114Mb Replacement or Additional Drive, RT PC (orderable only with 6151/50 Models 115/130/125/B25/135/B35)	3660		1356	Four-Port RS-232C Adapter (16-byte buffer, replaces FC 4763, speeds to 19.2 kbps, distance to 50 feet without modem, requires I/O slot, max. 4 adapters)	445
6070	70Mb Portable Disk Drive Module, RT PC (orderable only with 6156 Models 001/003)	2795		1357	Four-Port RS-422A Adapter (16-byte buffer, replaces FC 4764, speeds to 19.2 kbps, distance to 4000 feet without modem, requires I/O slot, max. 4 adapters)	524
6310	310Mb Portable Disk Drive Module, RT PC (orderable only with 6156 Models 001/003)	6895		3165	8-Port Asynchronous RS-232C Adapter (allows attachment of 8 asynchronous devices, 16-byte buffer, speeds to 19.2 kbps, distance to 4000 feet without modem, max. 4 adapters-6151, 6 adapters-6150)	890
6192-001	IBM 6192-001 Expansion Unit, RT PC	1375		3169	8-Port Asynchronous MIL-STD 188 Adapter (allows attachment of 8 asynchronous devices, 16-byte buffer, speeds to 19.2 kbps, distance to 4000 feet without modem, max. 4 adapters-6151, 6 adapters-6150)	1045
3540	IBM Expansion Unit Adapter, RT PC	235		3157	8-Port Cable Assembly - RS-232C (includes eight 10-pin MODU connectors)	518
2400	Personal Pageprinter Adapter RT PC Edition (requires an I/O slot) (10/28/88)	2040		3171	8-Port Asynchronous RS-422A Adapter (allows attachment of 8 asynchronous devices, 16-byte buffer, speeds to 19.2 kbps, distance to 4000 feet without modem, max. 4 adapters-6151, 6 adapters-6150)	1045
4797	6157 Streaming Tape Drive Adapter, RT PC (requires an I/O slot)	450		3158	8-Port Cable Assembly - RS-422A (includes eight 6-pin MODU connectors)	518
	The RT PC also supports the PC/AT High-Capacity Diskette Drive (FC 0206) and the PC/AT Dual-Sided Diskette Drive (FC 0207). A maximum of 2 Diskettes Drives may be configured.			3797	Token-Ring Network Adapter for RT PC (requires customer-written drivers)	1145
8222	1MB System Memory Expansion (max. 1 additional on old models)	1510		3390	Token-Ring Attachment Cable for RT PC	35
4739	2MB System Memory Expansion (max. 1 additional on old models)	2665		6810	IBM RT PC Baseband Adapter for use with Ethernet	890
3156	4MB System Memory Expansion (max. 2 on old models)	3665		4762	RT PC Multi-Protocol Communications Adapter (Asc, BSC, SDLC to 64kbps, 2 concurrent ports)	890
7004	4MB Fast Memory Expansion (max. 2 on models 115, 125, B25)	3980		4812	RS-232C Modem Cable for Multi-Protocol Communications Adapter, 3m	100
7008	8MB Fast Memory Expansion (max. 1 on models 115, 125, B25)	5240		4814	Autocall Unit Cable, 3m	88
7010	4MB Incremental Fast Memory (includes 8MB card) (max. 1 on models 115, 125, B25)	3980		4816	X.21 Modem Cable for Multi-Protocol Communications Adapter, 3m	93
7011	8MB Incremental Fast Memory (can only be ordered with FC 7008) (max. 1 on models 115, 125, B25)	N/C		4756	PC/AT Coprocessor Card (req. I/O slot, FC 0203 memory recommended for performance, also supports FC 0211 (80287 chip))	1040
8426	Mouse, 2-button	204				
6815	Advanced Floating-Point Accelerator (IEEE standard, uses dedicated slot)	2090				
4758	Floating-Point Accelerator (IEEE standard, uses dedicated slot)	890				

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MODEL/FC VPA	DESCRIPTION	PRICE
7893	System/370 Host Interface Adapter (Attachment via 5080 Graphics Channel Controller at 2MB/sec)	1795
7561	5080 Peripheral Adapter (Not required if RT PC is attached to 5080, requires I/O slot, contains 3 ports)	445
4710	Lighted Program Function Keyboard (32-button, req. FC 7564, 7561)	575
8710	Dials Unit (8 dials, req. FC 7564, 7561)	995
7860	5080 Attachment Adapter (Model 020-025 only, standard in A25, req. an I/O slot)	1880
6153-001	Advanced Monochrome Graphics Display (12in Diagonal) (2 color, variable character cell, 720H x 512V resolution, .37 Megapixel)	610
4765	Advanced Monochrome Graphics Display Adapter (1024 x 512 bit map, displays 720 x 512 on 6153, req. an I/O slot)	812
6155-001	Extended Monochrome Graphics Display, RT PC (15in Diagonal) (2 color, variable character cell, 1024H x 768V resolution, .79 Megapixel)	975
4768	Extended Monochrome Graphics Display Adapter (1024 x 1024 bit map, displays 1024 x 768 on 6155, req. an I/O slot)	1515
6154-001	Advanced Color Graphics Display (14in Diagonal) (64 color, variable character cell, 720H x 512V resolution, .37 Megapixel)	1550
4766	Advanced Color Graphics Display Adapter (1024 x 512 x 4 bit map, palette of 16 colors from 64, displays 720 x 512 on 6154, req. an I/O slot)	1410
7658	Megapixel Display Adapter (1024 x 1024 x 8 bit map, palette of 256 colors from 4096, supports 5081 and 5082, req. 2 I/O slots, req. FC2001 on 5081) inc. parallel printer adapter	4715
7564	5080 Peripheral Cable Kit (1.2 meter)	55
7586	5083 Tablet Cable Kit (1.4 meter)	51
8245	ASCII Terminal Cable - RS-232C (9-pin, 3 meter)	57

8186	ASCII Terminal Cable - RS-232C (10-pin, 3 meter)	107
3913	ASCII Terminal Cable - RS-232C (10/25-pin, 3 meter) for attaching 316X terminals	73
7641	ASCII Terminal Cable - RS422A (6-pin, 3 meter)	44
4802	ASCII Terminal Cable - RS422A (6-pin, 20 meter)	81
8993	Serial Printer Cable (9-pin, 3 meter)	61
4803	Serial Printer Cable (10-pin, 3 meter)	67
4704	Modem Cable, RS-232C (10-pin, 3 meter)	67
8541	Fixed-Disk Attach Cable (attaches third Fixed Disk to second adapter)	54

RT PC SOFTWARE, GENERAL

5601-190	SAMNA PLUS IV for the IBM RT PC (Single-User) (FC 9001, 5131, 4663) (5.25in)	695
5601-190	SAMNA PLUS IV for the IBM RT PC (Multi-User) (FC 9001, 5136, 4664) (5.25in)	1995
06F2410 A	PostScript Interpreter RT PC Edition (10/28/88)	1050

RT PC SUPPORT PUBLICATIONS

Each RT PC System will be shipped with the following four manuals (choosing the appropriate maintenance manual)		
SV21-8020	IBM RT PC User Setup Guide	27.75
SV21-8021	Guide to Operations - RT PC	20.25
SV21-8022	Problem Determination Guide - RT PC	65
SV21-8026	Hardware Maintenance and Service Manual - RT PC 6151	107
SV21-8025	Hardware Maintenance and Service Manual - RT PC 6150	108
GA23-1058	IBM RT PC Site Planning and Preparation	N/C
GC23-0784	IBM RT PC Concepts	N/C
SV21-8024	IBM RT PC Hardware Technical Reference	150

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MODEL/FC VPA DESCRIPTION PRICE

IBM RT PC ADVANCED INTERACTIVE EXECUTIVE (AIX)

For associated hardware, see "Processors - RT PC System" on page 113.

For a special promotional offering on the following product, see "IBM RT CAD/CAM Promotional Offering" on page 1.

5601-061 G	IBM RT PC Advanced Interactive Executive V.2.1 (FC 9001, 5007) Warranted, Central Service to 2/1/89, Incl. function of VRM V.2.1	2295
4512 G	UPGRADE, RT PC AIX V.1.1 to V.2.1 (FC 9001, 5008)	395
5601-061 G	ADDITIONAL LICENSE, RT PC Advanced Interactive Executive V.2.1 (FC9510)	1455
5601-061 G	IBM RT PC Advanced Interactive Executive V.2.2 (FC 9001, 5033 4550) (Program Package) (5.25in) Warranted, Central Service 6 mo. notice or to 8/31/90	2295
5601-061 G	RT PC Advanced Interactive Executive V.2.2 (FC9518) (Additional Licenses) Warranted, Central Service 6 mo. notice or to 8/31/90	1455
G	RT PC AIX V.2.1 to V.2.2 (FC 9001, 5034, 4551) (Program Package Upgrade) (5.25in) (W/D 3/31/89)	395
G	RT PC AIX V.2.1 to V.2.2 (FC 6500) (Additional Licenses Upgrade) (W/D 3/31/89)	250
5601-061 G	IBM RT PC Advanced Interactive Executive V.2.2 (FC 6003 4552) (32 User Option) (5.25in) Warranted, Central Service 6 mo. notice or to 8/31/90	1700
5601-062 G	IBM RT PC Virtual Resource Manager V.2.1 (FC9001, 4513, 5009) function incl. in AIX 2.1, Warranted, Central Service to 2/1/89	895

4514 G	UPGRADE, RT PC VRM V.1.1 to V.2.1 (FC9001, 5010)	100
5601-062 G	ADDITIONAL LICENSE, RT PC Virtual Resource Manager V.2.1 (FC9511)	801
5601-062 G	IBM RT PC Virtual Resource Manager V.2.2 (FC9001, 4553, 5035) (Program Package) (5.25in) Warranted, Central Service 6 mo. or to 8/31/90	895
5601-062 G	RT PC Virtual Resource Manager V.2.2 (FC9518) (Additional License) Warranted, Central Service 6 mo. or to 8/31/90	801
G	RT PC VRM V.2.1 to V.2.2 (FC9001, 5036, 4554) (Program Package Upgrade) (5.25in) (W/D 3/31/89)	100
G	RT PC VRM V.2.1 to V.2.2 (FC6501) (Additional Licenses Upgrade) (W/D 3/31/89)	100
5669-057 G	RT PC PC/AT Coprocessor Services V.1.1 (supports AT processor card in RT PC, FC's 9001, 5030, 4528) Warranted, Central Service 6 mo. notice or to 2/1/88	550
5669-057 G	ADDITIONAL LICENSE, RT PC PC/AT Coprocessor Services V.1.1 (FC9516)	505
5601-189	AIX/RT Workstation Host Interface Program V.1.1 (9/88) (Program Package) Warranted, Central Service 6 mo. notice or to 1/31/90	995
5601-189	AIX/RT Workstation Host Interface Program V.1.1 (9/88) :(Additional Licenses) Warranted, Central Service 6 mo. notice or to 1/31/90	907
5601-189	AIX/RT Workstation Host Interface Program V.1.1 (9/88) :(Program Package Upgrade) (W/D 6/30/89) Warranted, Central Service 6 mo. notice or to 1/31/90	200

IBM RT PC Advanced Interactive Executive (AIX)

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MODEL/FC VPA	DESCRIPTION	PRICE
5601-189	AIX/RT Workstation Host Interface Program V.1.1 (9/88) :(Additional Licenses Upgrade) (W/D 6/30/89) Warranted, Central Service 6 mo. notice or to 1/31/90	163
5601-191	AIX/RT Personal Computer AT Simulator :(Program Package) Warranted, Central Service 6 mo. notice or to 1/31/90	500
5601-191	AIX/RT Personal Computer AT Simulator :(Additional Licenses) Warranted, Central Service 6 mo. notice or to 1/31/90	425
5601-077 G	RT PC X-Windows V.1.1 (windowing system) (FC4524) Warranted, Central Service 6 mo. notice or to 1/1/89	195
5601-077 G	ADDITIONAL LICENSE, RT PC X-Windows V.1.1 (FC9514)	102
5601-125 G	AIX/RT X-Windows V.2.1 (windowing system) (09/88) (Program Package) Warranted, Central Service to 8/31/90	195
5601-125 G	AIX/RT X-Windows V.2.1 (windowing system) (09/88) (Additional License) Warranted, Central Service to 8/31/90	98
5601-125	AIX/RT X-Windows V.2.1 Upgrade from V.1.1 (09/88) (W/D 6/89) (Upgrade) Warranted, Central Service to 8/31/90	65
5601-125	AIX/RT X-Windows V.2.1 Upgrade from V.1.1 (09/88) (W/D 6/89) (Additional License Upgrade) Warranted, Central Service to 8/31/90	35
5601-160 G	AIX/RT Distributed Services R.1.2 (Program Package) Warranted, Central Service to 12/31/90	600
5601-160 G	AIX/RT Distributed Services R.1.2 (Additional License) Warranted, Central Service to 12/31/90	557
5601-160	AIX/RT Distributed Services R.1.2 Upgrade from V.1.1 (W/D 3/89) (Upgrade) Warranted, Central Service to 12/31/90	100
5601-160	AIX/RT Distributed Services R.1.2 Upgrade from V.1.1 (W/D 3/89) (Additional License Upgrade) Warranted, Central Service to 12/31/90	60
5601-165 G	AIX/RT Distributed Services V.1.3 (3/31/89) (Program Package) Warranted, Central Service to 8/31/90	600
5601-165 G	AIX/RT Distributed Services V.1.3 (3/31/89) (Additional Licenses) Warranted, Central Service to 8/31/90	557
5601-165	AIX/RT Distributed Services V.1.3 Upgrade from V.1.2 (Program Package Upgrade) (3/31/89) (W/D 3/29/90) Warranted, Central Service to 8/31/90	100
5601-165	AIX/RT Distributed Services V.1.3 Upgrade from V.1.2 (Additional Licenses Upgrade) (3/31/89) (W/D 3/29/90) Warranted, Central Service to 8/31/90	83
5601-157 G	AIX/RT DOS Server (3/31/89) (Program Package) Warranted, Central Service to 8/31/90	225
5601-165 G	AIX/RT DOS Server (3/31/89) (Additional Licenses) Warranted, Central Service to 8/31/90	144
5601-159 G	AIX/RT Network File System (09/88) (Program Package) Warranted, Central Service to 12/31/90	995
5601-159 G	AIX/RT Network File System (09/88) (Additional License) Warranted, Central Service to 12/31/90	862
5706-026 G	AIX/RT VS COBOL Compiler (Program Package) (FC's 9001, 5010, 4000) Warranted, Central Service 6 mo. notice or to 8/31/90 (5.25in) (9/30/88)	2000
5706-026 G	AIX/RT VS COBOL Compiler (Additional License) (FC 9501) Warranted, Central Service 6 mo. notice or to 8/31/90 (5.25in) (9/30/88)	2000
5706-025 G	AIX/RT VS COBOL Run Time Environment (Program Package) (FC's 9001, 5009, 4000) Warranted, Central Service 6 mo. notice or to 8/31/90 (5.25in) (9/30/88)	500
5706-025 G	AIX/RT VS COBOL Run Time Environment (Additional License) (FC 9500) Warranted, Central Service 6 mo. notice or to 8/31/90 (5.25in) (9/30/88)	469
6335 A	SY-TOS/IBM 6157 Tape Utilities V.3.0 (backup/restore, library utilities driving 6157) (Program Package) (AIX) (1Q89)	195

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MODEL/FC VPA DESCRIPTION PRICE

IBM RT PC SOFTWARE, OTHER

5669-056	G	RT PC BASIC Interpreter (FC's 9001, 5029, 4527) Warranted, Central Service 6 mo. notice or to 2/1/88	1000	5669-055	G	RT PC Pascal V.1.1 (FC's 9001, 5028, 4526) High compatibility with Pascal on PC, Warranted, Central Service 6 mo. notice or to 2/1/88	1000
5669-056	G	ADDITIONAL LICENSE, RT PC BASIC (FC9515)	880	5669-055	G	ADDITIONAL LICENSE, RT PC Pascal V.1.1 (FC9514)	876
		RT PC Advanced C Compiler Support Offering (education, C Compiler Information PRPQ, hotline access)	1995	5601-038	G	RT PC VS Pascal V.1 (FC4501) High compatibility with Pascal/VS on S/370, Warranted, Central Service to 2/1/89	1000
5776-EBY	G	RM/COBOL Compiler and Runtime System for the RT PC (FC's 9001, 4005, 5001) *	1950	5601-038	G	ADDITIONAL LICENSE, RT PC VS Pascal V.1 (FC9516)	843
5776-EBX	G	RM/COBOL Runtime System for the RT PC (FC's 9001, 4004, 5000) *	400	5601-071	G	RT PC Distributed Services (Ethernet or SDLC transparent access to remote files, applications) (FC4520) Warranted, Central Service 6 mo. notice or to 2/1/89	600
5669-054	G	RT PC Fortran 77 V.1.1 (FC's 9001, 5027, 4525) Warranted, Central Service 6 mo. notice or to 2/1/88	650	5601-071	G	ADDITIONAL LICENSE, RT PC Distributed Services (FC9513)	557
5669-054	G	ADDITIONAL LICENSE, RT PC Fortran 77 V.1.1 (FC9513)	584	5669-053	G	RT PC INmail/INnet/File Transfer Program V.1.1 (FC9001, 5025, 4523) Warranted, Central Service 6 mo. notice or to 2/1/88	625
5601-037	G	RT PC VS Fortran V.1 (FC 4500) High compatibility with Host VS Fortran 2.1, Fortran 77, and VAX Fortran V.3, Warranted, Central Service 6 mo. notice or to 2/1/89	995	5669-053	G	ADDITIONAL LICENSE, RT PC INmail/INnet/File Transfer Program V.1.1 (FC9512)	528
5601-037	G	UPGRADE, RT PC Fortran 77 to RT-PC VS Fortran (FC4510)	395	5601-039	G	RT PC Workstation Host Interface Program (3270 Emulation, File Xfer, API, req. RT Host Interface Adapter) (FC4502, 9001, 5002) Warranted, Central Service to 2/1/89	995
5601-037	G	ADDITIONAL LICENSE, RT PC VS Fortran V.1 (FC9515)	881	5601-039	G	ADDITIONAL LICENSE, RT PC Workstation Host Interface Program (FC9517)	937
5669-242	G	Common Lisp Application Environment for the RT PC by Lucid, Inc. (FC's 9001, 4664, 5141) Compiler and Interpreter *	900	5669-052	G	RT PC 3278/79 Emulation V.1.1.1 (FC's 9001, 5025, 4523) Warranted, Central Service 6 mo. notice or to 2/1/88	500
5669-243	G	Common Lisp Development Environment for the RT PC by Lucid, Inc. (FC's 9001, 4665, 5142) Compiler and Interpreter *	4000	5669-052	G	ADDITIONAL LICENSE, RT PC 3278/79 Emulation V.1.1.1 (FC9511)	460

IBM RT PC Software, Other

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MODEL/FC VPA	DESCRIPTION	PRICE
5601-044 G	Network 3270-Plus (SNA) for RT PC (FC4505) Coax or SDLC 3278, 3287, multiple sessions, file transfer	995
5601-045 G	Network 3270-Plus (BSC) for RT PC (FC4506) Coax or BSC 3278, 3287, multiple sessions, file transfer	1195
5601-043 G	Network RJE-Plus (SNA) for RT PC (FC4504) 2780, 3780, 3770 emulation	995
5601-042 G	Network RJE-Plus (BSC) for RT PC (FC4503) 2780, 3780, 3770 emulation	1195
5601-064 G	RT PC Structured Query Language/RT Data Base V.2.1 (FC9001, 4517, 5013) Warranted, Central Service (W/D 10/19/88)	1000
4518	UPGRADE, RT PC SQL V.1.1 to V.2.1 (FC 9001, 5014)	200
5601-064 G	ADDITIONAL LICENSE, RT PC Structured Query Language/RT V.2.1 (FC9512)	830
5669-059 G	RT PC Data Management Services V.1.1.1 (FC's 9001, 5032, 4530) Warranted, Central Service 6 mo. notice or to 2/1/88	500
5669-059 G	ADDITIONAL LICENSE, RT PC Data Management Services V.1.1 (FC9517)	439
5669-100 G	RT PC Applix IA (word processing, graphics, mail, calendar) (FC's 9001, 5052, 4550) *	1995
5669-187 G	RT PC RS/1 by Bolt, Beranek and Newman (FC's 9001, 5133, 4610) Warranted, Central Service 6 mo. notice or to 4/17/89	5500
5601-120 G	RT PC IMSL MATH/LIBRARY * (FC's 9001, 5057, 4570)	3900
5601-121 G	RT PC IMSL SFUN/LIBRARY V.2.0 (FC's 9001, 5058, 4572)	1850
5601-119 G	RT PC IMSL STAT/LIBRARY (FC's 9001, 5058, 4571)	4300
5669-104 G	RT PC IMSL MATH/PROTRAN (FC's 9001, 5056, 4554)	2100
5669-105 G	RT PC IMSL STAT/PROTRAN (FC's 9001, 5057, 4555)	1495
5669-103 G	RT PC IMSL LP/PROTRAN (FC's 9001, 5055, 4553)	2700
5669-050 G	RT PC Graphics Development Toolkit (FC's 9001, 5023, 4521) Warranted, Central Service 6 mo. notice or to 2/1/88	700
5669-050 G	ADDITIONAL LICENSE, RT PC Graphics Development Toolkit (FC9510)	590
5669-064 G	RT PC Graphics Terminal Emulator (FC's 9001, 5037, 4535) Warranted, Central Service 6 mo. notice or to 2/1/88	600
5669-063 G	RT PC Plotting System (FC's 9001, 5036, 4534) Warranted, Central Service 6 mo. notice or to 2/1/88	600
5669-062 G	RT PC Graphical File System (FC's 9001, 5035, 4533) Warranted, Central Service 6 mo. notice or to 2/1/88	600
5669-108 G	UNIRAS-RASPAK * (FC's 9001, 5060, 4558)	3550
5669-101 G	UNIRAS-RASPAK Solids * (FC's 9001, 5053, 4551)	4995
5669-102 G	UNIRAS-UNIMAP * (FC's 9001, 5054, 4552)	7650
5669-109 G	UNIRAS-GEOPAK * (FC's 9001, 5061, 4559)	6995
5669-110 G	UNIRAS-GEOINT * (FC's 9001, 5062, 4560)	1595
5669-111 G	UNIRAS-KRIGPAK * (FC's 9001, 5063, 4561)	3550
5669-112 G	UNIRAS-GIMAGE * (FC's 9001, 5064, 4562)	2595
5669-113 G	UNIRAS-SEISPAK * (FC's 9001, 5065, 4563)	7650
5669-114 G	UNIRAS-UNIGRAPH * (FC's 9001, 5066, 4564)	2995
5669-115 G	UNIRAS-BIZPAK * (FC's 9001, 5067, 4565)	2595
5669-117 G	UNIRAS-UNIEDIT * (FC's 9001, 5069, 4567)	2595
5669-086 G	RT PC Workstation Publishing Software by Interleaf (FC's 9001, 5038, 4536) *	900
5601-070 G	RT Publishing Software by Interleaf (accepts drawings from IBM CAD systems, text from DW3 and DCF, others) (FC's 9001, 4519, 5015) *	8200
8971 A	IBM Interleaf Publishing Series RT PC Edition (Program Package) (5.25in) Warranted, Central service 3 months or no later than 12/31/90 ** (10/28/88)	6595
9990 B	IBM Interleaf Publishing Series RT PC Edition (Program Package Upgrade) (5.25in) (For upgrade from IBM Workstation Publishing Software - 5669-086) (10/28/88)	6000
9991 B	IBM Interleaf Publishing Series RT PC Edition (Program Package Upgrade) (5.25in) (For upgrade from IBM RT Publishing Software - 5601-070) (10/28/88)	4625

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MODEL/FC VPA	DESCRIPTION	PRICE			
9976 A	IBM Interleaf Publishing Series RT PC Edition Data Export (Program Package) (5.25in) Warranted, Central service 3 months or no later than 12/31/90 ** (10/28/88)	500	5601-167	SQL*Net TCP/IP Protocol Device Driver	450
			5601-168	SQL*Net SNA LU 6.2 Protocol Device Driver	450
9982 A	IBM Interleaf Publishing Series RT PC Edition Spanish Dictionary (Program Package) (5.25in) Warranted, Central service 3 months or no later than 12/31/90 ** (10/28/88)	500	5601-137	Pro*COBOL Programming Interface (9/30/88)	450
			5601-171	Pro*C Programming Interface	450
			5601-129	Pro*FORTRAN Programming Interface	450
9981 A	IBM Interleaf Publishing Series RT PC Edition German Dictionary (Program Package) (5.25in) Warranted, Central service 3 months or no later than 12/31/90 ** (10/28/88)	500	5601-180	INGRES Data Base Management System	3000
			5601-181	INGRES/APPLICATIONS	900
			5601-031	Embedded SQL Preprocessor for COBOL (9/30/88)	300
			5601-185	Embedded SQL Preprocessor for FORTRAN	300
			5601-186	Embedded SQL Preprocessor for Pascal (10/28/88)	300
9979 A	IBM Interleaf Publishing Series RT PC Edition French Dictionary (Program Package) (5.25in) Warranted, Central service 3 months or no later than 12/31/90 ** (10/28/88)	500	5601-182	INGRES/NET (10/28/88)	N/C
			5601-183	INGRES/STAR (12/30/88)	900
			5709-007	INGRES/PCLINK	300
5669-087 G	RT PC SAMNA+ (FC's 9001, 5039, 4537) *	1295		The IBM Architecture and Engineering Series is also available in packages as an hardware/software option. Refer to ivory #288-216 for more information.	
5669-088 G	RT PC SOLOMON III General Ledger (FC's 9001, 5040, 4538) *	995			
5669-089 G	RT PC SOLOMON III Accounts Receivable (FC's 9001, 5041, 4539) *	995			
5669-090 G	RT PC SOLOMON III Accounts Payable (FC's 9001, 5042, 4540) *	995	5713-ADB	IBM Architecture and Engineering Series - Graphics (12/88)	3000
5669-091 G	RT PC SOLOMON III Payroll (FC's 9001, 5043, 4541) *	995	5709-111	IBM Architecture and Engineering Series - Rendering (12/88)	3000
5669-092 G	RT PC SOLOMON III Purchasing (FC's 9001, 5044, 4542)	995	5709-012	IBM Architecture and Engineering Series - Structural (12/88)	5400
5669-093 G	RT PC SOLOMON III Order Entry/Invoicing (FC's 9001, 5045, 4543) *	995	5709-013	IBM Architecture and Engineering Series - Energy (12/88)	600
5669-094 G	RT PC SOLOMON III Job Costing (FC's 9001, 5046, 4544) *	1395	5709-015	IBM Architecture and Engineering Series - HVAC (12/88)	2500
5669-095 G	RT PC SOLOMON III Fixed Assets (FC's 9001, 5047, 4545) *	995	5709-016	IBM Architecture and Engineering Series - Piping (12/88)	2400
5669-096 G	RT PC SOLOMON III Sales Analysis (FC's 9001, 5048, 4546) *	595	5709-017	IBM Architecture and Engineering Series - Power (12/88)	8000
5669-097 G	RT PC SOLOMON III Inventory (FC's 9001, 5049, 4547) *	995	5709-018	IBM Architecture and Engineering Series - Lighting (12/88)	5400
5669-098 G	RT PC SOLOMON III Address and Mail List (FC's 9001, 5050, 4548) *	395		These programs are discounted under the separate CAD/CAM Licensed Programs Agreement. The VPA Categories listed below are for that agreement only.	
5669-099 G	RT PC SOLOMON III Database Reporter (FC's 9001, 5051, 4549) *	995			
5601-166	ORACLE Data Base Management System	3000			
5601-169	SQL*Plus	600			
5601-130	SQL*Forms	750			
5601-132	SQL*Menu	450			
5601-128	SQL*Net	600			

For a special promotional offering on the following product, see "IBM RT CAD/CAM Promotional Offering" on page 1.

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MODEL/FC VPA	DESCRIPTION	PRICE	
5669-193 A	Professional CADAM 2.0 (FC9001, 5858, 4620) Warranted, Central Service 6 mo. notice	10000	
5669-193 A	Professional CADAM 1.2 (FC9001, 5858, 4620) Warranted, Central Service to 10/1/88	10000	For a special promotional offering on the following product, see "IBM RT CAD/CAM Promotional Offering" on page 1.
5669-193 A	Professional CADAM (FC's 9001, 5858, 4620) Warranted, Central Service 6 mo. notice or to 10/1/88	10000	
5713-ABQ	Professional CADAM Interactive Solids Design Release 3.0 Warranted, Subscription Svc for 12 mos. (9/88)	5000	
5713-ABQ	Professional CADAM Interactive Solids Design (FC's 9001, 4655, 4656, 4658, 4659, 4660, 4661, 5067) Warranted, Subscription Svc for 12 mos.	5000	
5669-167 B	RT PC graPHIGS R.3.2 (FC's 9001, 5858, 4608) Warranted, Central Service 6 mo. notice	1000	
5669-167 B	GDDM/graPHIGS Programming Interface Release 3.4, The Personal Graphics Programming Interface Release 3.4 (FC 9001, 4608, 5858) Warranted, Central Service 6 mo. notice	1000	
5601-059 K	Computer-Integrated Electrical Design Series (CIEDS)/Circuit Board Design System (CDBS) Version 4 Release 3 for AIX/RT ** (FC 5858, 5900) Warranted, Central Service, 6 months notice or to 9/16/89	22000	
5601-089 K	Computer-Integrated Electrical Design Series (CIEDS)/Circuit Board Design System (CDBS) Version 4 Release 2 for AIX/RT ** (FC 9001, 4509, 5858) Warranted, Central Service to 4/30/89 (W/D 12/31/88)	8000	
5669-192 C	Computer-Integrated Electrical Design Series (CIEDS)/Design Capture/RT PC (FC 9001, 4488, 5858) Warranted, Central Service to 7/1/88	8000	
5713-ABF C	Computer-Integrated Electrical Design Series (CIEDS)/Engineering Access Routines (FC 9001, 4488, 5858) Warranted, Central Service to 7/1/88	5000	
5713-ABG C	Computer-Integrated Electrical Design Series (CIEDS)/Interface, (FC 9001, 4489, 5858) Warranted, Central Service to 7/1/88	2000	
5706-064 D	CAEDS R.3 Base for the IBM RT PC (FC9001, 4200, 4236, 3000, 5041, 5040) Warranted, 1 year or Enhancement Subscription Service Option	3150	
5706-065 E	CAEDS R.3 Object Modeler for the IBM RT PC (FC9001, 4201, 4237, 3001, 5041, 5040) Warranted, 1 year or Enhancement Subscription Service Option	7770	
5706-066 E	CAEDS R.3 System Modeler for the IBM RT PC (FC9001, 4202, 4238, 3002, 5041, 5040) Warranted, 1 year or Enhancement Subscription Service Option	11130	
5706-066 E	CAEDS R.3 Mechanism Design Feature for the IBM RT PC (FC9001, 4203, 4239, 3003, 5080) Warranted, 1 year or Enhancement Subscription Service Option	3150	
5706-067 E	CAEDS R.3 Graphics Finite Element Modeler for the IBM RT PC (FC9001, 4204, 4240, 3004, 5041, 5040) Warranted, 1 year or Enhancement Subscription Service Option	11340	
5706-067 E	CAEDS R.3 Laminate Composition Feature for the IBM RT PC (FC9001, 4205, 4241, 3005, 5082) Warranted, 1 year or Enhancement Subscription Service Option	3990	
5706-068 E	CAEDS R.3 Integrated Finite Element Solver for the IBM RT PC (FC9001, 4206, 4242, 3006, 5041, 5040) Warranted, 1 year or Enhancement Subscription Service Option	7200	
5706-068 E	CAEDS R.3 Optimization Feature IBM RT PC (FC9001, 4207, 4243, 3007, 5084) Warranted, 1 year or Enhancement Subscription Service Option	5040	
5706-069 E	CAEDS R.3 Dimensioning for the IBM RT PC (FC9001, 4208, 4244, 3008, 5041, 5040) Warranted, 1 year or Enhancement Subscription Service Option	5040	
5706-070 E	CAEDS R.3 Test Data Analysis for the IBM RT PC (FC9001, 4380, 4382, 3107, 5041, 5040) Warranted, 1 year or Enhancement Subscription Service Option	2015	

IBM RT PC Software, Other

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MODEL/FC VPA	DESCRIPTION	PRICE
5706-070 E	CAEDS R.3 Structural Modification Feature for the IBM RT PC (FC9001, 4381, 4383, 3108, 5042) Warranted, 1 year or Enhancement Subscription Service Option	505
5669-206 D	CAEDS R.2 Base for the IBM RT PC (FC9001, 5858, 4644) Warranted, Central Service to 1/31/89 (W/D 10/13/88)	1655
5713-ABR E	CAEDS R.2 Dimensioning for the IBM RT PC (FC9001, 5858, 4572) Warranted, Central Service to 1/31/89 (W/D 10/13/88)	9800
5669-207 E	CAEDS R.2 Object Modeler for the IBM RT PC (FC9001, 5858, 4645) Warranted, Central Service to 1/31/89 (W/D 10/13/88)	6060
5669-208 E	CAEDS R.2 System Modeler for the IBM RT PC (FC9001, 5858, 4646) Warranted, Central Service to 1/31/89 (W/D 10/13/88)	8230
5713-ABT E	CAEDS R.2 Integrated Finite Element Solver for the IBM RT PC (FC9001, 5858, 4573) Warranted, Central Service to 1/31/89 (W/D 10/13/88)	7200
5669-209 E	CAEDS R.2 Graphics Finite Element Modeler for the IBM RT PC (FC9001, 5858, 4647) Warranted, Central Service to 1/31/89 (W/D 10/13/88)	8940
5669-206 D	CAEDS Base for the IBM RT PC (FC's 9001, 5858, 4644) Warranted, Central Service to 1/31/89 (W/D 9/15/88)	1655
5669-207 E	CAEDS Object Modeler (FC's 9001, 5858, 4645) Warranted, Central Service to 1/31/89 (W/D 9/15/88)	6060
5669-208 E	CAEDS System Modeler (FC's 9001, 5858, 4646) Warranted, Central Service to 1/31/89 (W/D 9/15/88)	8230
5669-209 E	CAEDS Graphics Finite Element Modeler (FC's 9001, 5858, 4647) Warranted, Central Service to 1/31/89 (W/D 9/15/88)	8940
	For a special promotional offering on the following product, see "IBM RT CAD/CAM Promotional Offering" on page 1.	
5612-101 M	CATIA Base, Version 3, for the IBM RT PC (10/88)	4620
5612-102 M	CATIA Library V.3 for the IBM RT PC (10/88)	1000
5612-104 M	CATIA Drafting V.3 for the IBM RT PC (10/88)	3150
5612-105 M	CATIA 3D Design V.3 for the IBM RT PC (10/88)	2310
5612-106 M	CATIA Advanced Surfaces V.3 for the IBM RT PC (10/88)	5000
5612-107 M	CATIA Solids Geometry V.3 for the IBM RT PC (10/88)	7350
5612-109 M	CATIA Numerical Control - Mill V.3 for the IBM RT PC (10/88)	6000
	For a special promotional offering on the following product, see "IBM RT CAD/CAM Promotional Offering" on page 1.	
5669-227 G	CATIA Design System for the IBM RT PC, Warranted, Central Service for 12 months, with extension	9600
5669-228 H	CATIA Server for the IBM RT PC, Warranted, Central Service for 12 months, with extension	1500
5669-229 G	CATIA Advanced Surfaces the IBM RT PC, Warranted, Central Service for 12 months, with extension	5000
	<u>MUMPS-RT</u>	
9772 A	Micronetics Standard Massachusetts General Hospital Utility Multi-programming System (MSM-RT MUMPS)	1995

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MODEL/FC VPA	DESCRIPTION	PRICE
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PROCESSORS - IBM 6152 ACADEMIC SYSTEM

For associated software, see "Processors - IBM 6152 Academic System".

The IBM 6152 Academic System is discounted on the Volume Procurement Agreement for Qualified Institutions/Hospitals :.(PCED-4).

6152-022	IBM 6152 Academic System Unit including RISC processor, display adapter, LAN adapter, keyboard, 3.5in 1.44MB diskette, keylock, 2MB RISC memory, 20MB fixed disk (3/88-limited 7/88-general)	6395
6152-024	IBM 6152 Academic System Unit including RISC processor, display adapter, LAN adapter, keyboard, 3.5in 1.44MB diskette, keylock, 4MB RISC memory, 20MB fixed disk (3/88-limited 7/88-general)	7055
6152-044	IBM 6152 Academic System Unit including RISC processor, display adapter, LAN adapter, keyboard, 3.5in 1.44MB diskette, keylock, 4MB RISC memory, 44MB fixed disk (3/88-limited 7/88-general)	7820
6152-048	IBM 6152 Academic System Unit including RISC processor, display adapter, LAN adapter, keyboard, 3.5in 1.44MB diskette, keylock, 8MB RISC memory, 44MB fixed disk (3/88-limited 7/88-general) (3/88-limited 7/88-general)	9140
6152-074	IBM 6152 Academic System Unit including RISC processor, display adapter, LAN adapter, keyboard, 3.5in 1.44MB diskette, keylock, 4MB RISC memory, 70MB fixed disk (3/88-limited 7/88-general)	8820

6152-078	IBM 6152 Academic System Unit including RISC processor, display adapter, LAN adapter, keyboard, 3.5in 1.44MB diskette, keylock, 8MB RISC memory, 70MB fixed disk (3/88-limited 7/88-general)	10140
8604-001	IBM 8604 Monochrome Display for use with IBM 6152 (1024 x 768 pel resolution)	555
3041	IBM 6152 44MB Fixed Disk	1395
3051	IBM 6152 70MB Fixed Disk	2395
8001	IBM 6152 4MB RISC Memory Upgrade Kit	1320
8002	IBM 6152 8MB RISC Memory Upgrade Kit	2640

IBM 6152 SUPPORT PUBLICATIONS

Each 6152 System will be shipped with the following publications:		
S68X-2209	IBM 6152 Customer Set Up Sheet	??
S68X-2326	IBM 6152 Quick Reference Kit (includes Quick Reference Manual and Reference Diskette)	65
The following are available as a separate order:		
S68X-2327	IBM 6152 Hardware Maintenance Supplement (includes CE diagnostic diskette)	59
S68X-2328	IBM 6152 Technical Reference	??
S68X-2329	IBM 6152 Hardware Maintenance Reference	21

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MODEL/FC VPA DESCRIPTION PRICE

PERIPHERAL DEVICES, CROSS-SYSTEM

PRINTERS AND ATTACHMENTS

5612 a	Parallel Printer Cable	45
6031 a	Serial Printer Cable	45
5614 a	Printer Stand	47
0102 a	Compact Printer Connector for PC and XT	40
S229-9600	Hardware Maintenance & Service (for Graphics and Compact Printer) (order via PCTB)	34.50
2383 a	Color Printer Hardware Maintenance and Service Manual (order via PCTB)	23.25
5441	Wheelwriter 3/5/6 Typewriter Feature Adapter Option, for typewriter serial numbers above 500,000 (U.S.)	60
5442	Wheelwriter 3/5 Typewriter Feature Adapter Option, for typewriter serial numbers below 500,001 (U.S.)	60
5447	Wheelwriter 3/5/6 Typewriter Feature Adapter Option, for typewriter serial numbers above 500,000 (Puerto Rico)	60
5449	Wheelwriter 3/5 Typewriter Feature Adapter Option, for typewriter serial numbers below 500,001 (Puerto Rico)	60
5420	Wheelwriter 3/5/6 Typewriter Printer Option	150
5421	Wheelwriter 3/5/6 Typewriter Display/Printer Option	300
5433	Quietwriter 7/8 Typewriter Feature Adapter Option (U.S.)	60
5448	Quietwriter 7/8 Typewriter Feature Adapter Option (Puerto Rico)	60
5435	Quietwriter 7/8 Typewriter Printer Option	150

5436	Quietwriter 7/8 Typewriter Display/Printer Option	300
8566	Electronic 65/85 PC Att - Typewriter part	285
8569	Electronic 65/85 PC Att - PC part	60
8570	Electronic 65/85 PC Att - Convenience kit	345
1551-B01	\$ Epson FX-185 Printer	699

IBM 3812 PAGEPRINTER

The 3812 is available on the 4214/5200 VPA.

The 3812 attaches to PC's via the Asynchronous interface. A 3812 may be shared via the Sharing Card (FC 3115), or the IBM LAN printer server functions.

In non-PC environments, a 3812 can also be driven by VM and S/3X hosts via Bisynchronous or Twinax attachment.

The customer is responsible for ordering and replacing the photoconductor, developer, and fuser units. One of each unit is shipped with each printer.

Effective 2/2/88, the 3812 Pageprinter can no longer be configured with both the Tempest feature and the PC Sharing Card

As of September 20, 1988

MODEL/FC VPA	DESCRIPTION	PRICE	
3812-001	Pageprinter (maximum speed 12 pages/minute, 240x240 dpi resolution)	8235	
3812-002	Pageprinter (maximum speed 12 pages/minute, 240x240 dpi resolution, 1 MB memory for print operations and font storage, does image decompression)	8995	
	Field Upgrade 3812-001 to 3812-002	895	
3155	RT PC Attachment Option for 3812-002	95	
3115	3812 Sharing Card (share 3812 among up to 8 PC's)	495	
3050	3812 Printer Stand	325	
3030	Cable, 3812-PC, 6 meter	79	
3040	Cable, 3812-PC, 24 meter	119	
3125	TEMPEST filter for 3812 (power line filter, instructions)	586	
3135	TEMPEST Cable S-6 (6m long, RS-232C for PC attachment to 3812)	148	
3140	TEMPEST Cable S-24 (24m long, RS-232C for PC attachment to 3812)	199	
3130	TEMPEST Cable VM-6 (6m long, RS-232C for VM attachment to 3812)	148	
	Note: when connecting FC 3030 or FC 3040 to an PC/AT-based PC or 3270-PC via the Serial/Parallel Adapter, FC 0217 or FC 0242 is required.		
9986	Power Cord (Chicago only)	14	
1348339	Relocation Kit	191	
1348349	Toner Cartridges (2, yield 10,000 pp. ea.)	72	
1348347	Photoconductor Unit (Yield 20,000 pp.)	139	
1348330	Developer Unit (Yield 120,000 pp.)	469	
1348331	Fuser Unit (Yield 120,000 pp.)	239	
1348335	Cassette - Primary	85	
1348336	Cassette - Alternate	79	
6192333	Standard Operational Diskette, defaults to 5152 ASCII Character Set 2, 61 fonts total (Diskette shipped with 3812 defaults to Character Set 1)	??	
9623 A	PC/DOS 3812 Pageprinter Driver, Central Service to 12/31/87	49	
9624 A	PC/DOS 3812 Pageprinter Font Management System (customize fonts, change defaults, create/maintain font library and graphics) Central Service to 12/31/87		375
	The PC/DOS 3812 Pageprinter Font Management System is recommended for use with the following typographic fonts.		
5669-161	Sonoran Serif (equivalent to Monotype Times New Roman) for 3812, Central Service to 12/31/87		
	9001 Registration		N/C
	4601 One-Time Charge		640
	5124 5.25in Diskette		N/C
5669-162	Sonoran Sans Serif (equivalent to Monotype Arial) for 3812, Central Service to 12/31/87		
	9001 Registration		N/C
	4602 One-Time Charge		640
	5125 5.25in Diskette		N/C
5669-163	Pi and Specials Fonts for 3812, Central Service to 12/31/87		
	9001 Registration		N/C
	4603 One-Time Charge		480
	5126 5.25in Diskette		N/C
	IBM 3812 SUPPORT PUBLICATIONS		
G544-3265	IBM 3812 Pageprinter Introduction and Planning Guide		N/C
S544-3268	IBM 3812 Pageprinter Programming Reference		33.75
S544-3269	IBM 3812 Pageprinter Sharing Feature Installation Instructions		2
S544-3266	IBM 3823 Pageprinter Setup Instructions		5.10
S544-3267	IBM 3812 Pageprinter Guide to Operations		36.75
	IBM 3820 PAGE PRINTER		
	See also "Local Area Networks" on page 65 for the IBM PC Network PrintManager program.		
	The IBM 3820 Page Printer is also available for a monthly rental charge. See your IBM representative for details.		

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MODEL/FC VPA	DESCRIPTION	PRICE
	The IBM 3280 Page Printer attaches to a PC, XT, or AT via an SDLC attachment card.	
3820-001	IBM Page Printer (maximum speed 12 pages/minute, 240x240 dpi resolution)	28350
3050	EIA Interface Attachment (requires cable) (Printer also available with S/370 Channel Attachment)	500
	Memory - Pattern Storage (specify at least one)	
3010	512KB (One card)	1700
3020	1024KB (One card, recommended minimum)	3000
3025	2048KB (Two 1024KB cards)	6000
3030	3072KB (Three 1024KB cards)	9000
3065	4096KB (Four 1024KB cards)	12000
3040	EIA Interface Cable - 12 Meter	125
3045	EIA Interface Cable - 6 Meter	90
1669113	IBM 3820 Toner (6-200 gram bottles)	88
1669151	IBM Developer Mix (1-550 gram bottle)	56
1669115	IBM 3820 Fuser Oil (1-900cc bottle)	56
1678261	IBM 3820 Paper Cassette	70
1348140	IBM 3820 B5 Paper Cassette	75
7034548	IBM Multi-System Paper (8-500 sheet reams)	39
7034550	IBM Multi-System Paper - Legal (8 reams)	50.75
3200 a	System/370 Channel Emulator for PC/AT, to drive 3820 with channel attach feature or other S/370 channel devices, incl. 10ft cable (PN 70X4865)	2560
3200 a	System/370 Channel Emulator for PS/2 Model 30, to drive 3820 with channel attach feature or other S/370 channel devices, incl. 10ft cable and Tech Ref Library	2560
3201 a	System/370 Channel Emulator for PS/2 Model 30, to drive 3820 with channel attach feature or other S/370 channel devices (adapter only)	1860
3202 a	Cable for System/370 Channel Emulator for PS/2 Model 30	634
3203 a	Technical Library for System/370 Channel Emulator for PS/2 Model 30	68

3257 A Remote PrintManager, uses PC/AT or PS/2 Model 30 with S/370 Channel Emulator to allow PSF/MVS to drive a remote 3820 over SDLC, Warranted, Central Service to 9/91 (3.5in+5.25in) 3295

IBM 3852 COLOR INK-JET PRINTER

6050 e	Starter Pac for 3852-001 (Misc.paper)	121.85
S544-3120	Technical Reference Manual - Color Jetprinter (3852-2)	20.85
6293884	Roll Paper, 8-1/2in x 125 ft, microperf at 11in, 4 rolls/box	
	Quantity 1-3, Unit price	32.00
	Quantity 4-29, Unit price	25.80
	Quantity 30-59, Unit price	23.75
	Quantity 60-119, Unit price	22.80
	Quantity 120+, Unit price	22.35
6293935	Cut-sheet paper, 8-1/2 x 11in 250 sheets	
	Quantity 1-3, Unit price	15.50
	Quantity 4-29, Unit price	12.50
	Quantity 30-59, Unit price	11.55
	Quantity 60-119, Unit price	11.10
	Quantity 120+, Unit price	10.80
1669310	Continuous form pinfeed paper, 8-1/2 x 11in, microperf, 250 sheets	14.75
6293933	Transparency Material, 8-1/2 x 11in, 50 sheets	
	Quantity 1-3, Unit price	65.00
	Quantity 4-29, Unit price	57.75
	Quantity 30-59, Unit price	53.70
	Quantity 60-119, Unit price	52.75
	Quantity 120+, Unit price	52.30
6293886	Ink Cartridge, Black	
	Quantity 1-4, Unit price	11.70
	Quantity 5-9, Unit price	9.85
	Quantity 10-19, Unit price	8.75
	Quantity 20-49, Unit price	8.00
	Quantity 50+, Unit price	7.25
6293888	Ink Cartridge, Color	
	Quantity 1-4, Unit price	16.75
	Quantity 5-9, Unit price	14.85
	Quantity 10-19, Unit price	13.75
	Quantity 20-49, Unit price	12.85
	Quantity 50+, Unit price	12.05

IBM 4201 PROPRINTER II AND 4202 PROPRINTER XL

As of September 20, 1988

MODEL/FC VPA	DESCRIPTION	PRICE			
4201-002 e	IBM Proprinter II (40-240 CPS) w/4K print buffer, (Incl. ribbon, Guide to Operations, continuous forms guide, power cord)	549			In addition to the options listed below, the Proprinter XL24 supports the Serial Attach Module (FC 3000) of the Proprinter and the Fontset Options of the Proprinter X24 (FC 4001, 4002)
6328829	Ribbon, Proprinter II	9.25			
8X9804	Proprinter II Guide to Operations	30			
6328829	Ribbon Cartridge for Proprinter I	9.25		4928 a	Sheetfeed Attachment, Proprinter XL24
				1040414	4208 Proprinter XL24 Ribbon Cartridge
4202-001 e	IBM Proprinter XL (40-200 CPS, 14.3in Carriage, 4K buffer) (Incl. ribbon, Guide to Operations, continuous forms guide, power cord)	799		SC31-3793	IBM 4207 Proprinter X24 and 4208 Proprinter XL24 Guide to Operations
				SA34-2002	IBM 4207 Proprinter X24 and 4208 Proprinter XL24 Hardware Maintenance and Service Supplement
3000 a	Asynchronous Serial Interface Module	99			
4000 a	5K Print Buffer (Acts as 8K Buffer in XL, Proprinter II)	35			
1040150	Ribbon Cartridge for Proprinter XL	13.25			
SC31-3711	Proprinter II/Proprinter XL Guide to Operations	16			
SC31-3552	Proprinter Hardware Maintenance and Service Manual	70			
SN31-8034	Proprinter II Hardware Maintenance and Service Supplement	??			
SC31-2587	Proprinter Technical Reference Manual	28			
<u>IBM 4216 PERSONAL PAGEPRINTER</u>					
See also "IBM SolutionPac Offerings" on page 15 for the Personal Publishing Solutions, which incorporate some of the following products.					
				4216-020 e	Personal Pageprinter (maximum speed 6 pages/minute, 300x300 dpi resolution)
					2199
				4216-P25	Personal Pageprinter Subsystem for PS/2 Model 30 (includes Personal Pageprinter Adapter and Program V.1.3) (FCs 7001 and 8968)
					4999
				4216-P26	Personal Pageprinter Subsystem for PC XT-286 and PC-AT (includes Personal Pageprinter Adapter and Program V.1.3) (FCs 7001 and 8969)
					4999
				4216-P25	Personal Pageprinter Subsystem for PS/2 Model 50 and above (includes Personal Pageprinter Adapter and Program V.1.3) (FCs 7002 and 8968)
					4999
				6190603	Toner Cartridges, Personal Pageprinter (6/carton, price per cartridge)
					29
				6190604	Photoconductor Unit Kit, Personal Pageprinter
					199
				6190605	Cleaning Unit Kit, Personal Pageprinter
					99
				7001 a	Personal Pageprinter Adapter
					2040
				8968 A	IBM Personal Pageprinter Adapter Program V1.3 (3.5in) (Program Package)
					850
				8969 A	IBM Personal Pageprinter Adapter Program V1.3 (5.25in) (Program Package)
					850
				8970	IBM Personal Pageprinter Adapter Program V1.3 (Program Package Upgrade) (3.5in+5.25in) (W/D 3/31/89)
					70
<u>IBM 4207 PROPRINTER X24 AND 4208 PROPRINTER XL24</u>					
4207-001 e	IBM Proprinter X24 (67-240cps, 24-pin, draft through letter quality, Incl. ribbon, Guide to Operations, continuous forms guide, power cord)	799			
	In addition to the options listed below, the Proprinter X24 supports the Serial Attach Module (FC 3000) of the Proprinter				
4927 a	Sheetfeed Option, Proprinter X24	199			
4001 a	Fontset Option, Proprinter X24	109			
4002 a	Fontset Diskettes, Proprinter X24	32			
94X6122	Fontset Module, Proprinter X24	77			
1040475	4207 Proprinter X24 Ribbon Cartridge	11.50			
4208-001 e	IBM Proprinter XL24 (67-240cps, 24-pin, 14.3in carriage, draft through letter quality, Incl. ribbon, Guide to Operations, continuous forms guide, power cord)	1049			

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MODEL/FC VPA	DESCRIPTION	PRICE
7002 a	Personal Pageprinter Adapter/A	2040
S68X-2281	IBM Personal Pageprinter Adapter/A Hardware Maintenance Library Service Supplement	??
S68X-2282	IBM Personal Pageprinter Adapter/A Hardware Maintenance Library Reference Supplement	??

0988 A	Font - Optima, Bold	210
0989 A	Font - Palatino, Bold	210
0990 A	Font - Monotype Rockwell, Bold	210
0991 A	Font - ITC Souvenir Version 2, Bold	210
0992 A	Font - Monotype Times New Roman, Bold	210
0993 A	Font - Univers, Bold	420
0994 A	Font - Helvetica, Light	420
0995 A	Font - ITC Souvenir Version 2, Light	210
0996 A	Font - Univers, Light	420
0997 A	Font - Typewriter Group	240
0998 A	Font - Engineering and Math Group	480

IBM 4250/II ELECTROCOMPOSITOR

4250-002	ElectroCompositor Printer (separate VPA, 600x600 dpi output by electroerosion process producing camera-ready paper or negatives, ca. 2-5 minutes/page)	21000
0961 A	4250 Print Driver	850
0962 A	Font - ITC Avante Garde, Medium	210
0963 A	Font - Monotype Baskerville, Medium	210
0964 A	Font - Monotype Bodini, Medium	210
0965 A	Font - Candida, Medium	80
0966 A	Font - Monotype Century, Medium	210
0967 A	Font - Monotype Century Schoolbook, Medium	210
0968 A	Font - Excelsior, Medium	210
0969 A	Font - Futura, Medium	80
0970 A	Font - Monotype Garamond, Medium	210
0971 A	Font - Helvetica, Medium	525
0972 A	Font - Optima, Medium	210
0973 A	Font - Palatino, Medium	210
0974 A	Font - Monotype Rockwell, Medium	210
0975 A	Font - ITC Souvenir Version 2, Medium	210
0976 A	Font - Monotype Times New Roman, Medium	210
0977 A	Font - Univers, Medium	420
0978 A	Font - ITC Avante Garde, Bold	210
0979 A	Font - Monotype Baskerville, Bold	210
0980 A	Font - Monotype Bodini, Bold	210
0981 A	Font - Candida, Bold	120
0982 A	Font - Monotype Century, Bold	210
0983 A	Font - Monotype Century Schoolbook, Bold	210
0984 A	Font - Excelsior, Bold	105
0985 A	Font - Futura, Bold	160
0986 A	Font - Monotype Garamond, Bold	210
0987 A	Font - Helvetica, Bold	420

IBM 5201 QUIETWRITER PRINTER

5201-002 e	Quietwriter Printer II (40-60cps, thermal transfer, APA graphics) Incl. Courier 10 Quiet Electronic Font, noncorrecting ribbon cartridge, printhead, wrap plug, accessory kit	999
7840 a	Sheetfeed	366
7820 a	Pinwheel Forms Feed	78
1299642	IBM Quiet Correcting Ribbon	12
1299790	IBM Quiet Non-Correcting Ribbon	12
1340803	IBM Quiet Electronic Font PC - Prestige Elite	50
1340810	IBM Quiet Electronic Font PC - Courier 10	50
1340806	IBM Quiet Electronic Font PC - Prestige 15	50
1340830	IBM Quiet Electronic Font PC - Boldface	50
1341153	Accessory Kit (Incl. Line Cord, Paper Table, Quiet Cleaning Cartridge, Guide to Operations)	50.25
7940 e	IBM Quiet Printhead	20
7930 e	IBM Quiet Cleaning Cartridge	5.55
7910 e	Line Cord	7.75
7920 e	Paper Table	7.50
7880 e	Sheetfeed Paper Tray	41

IBM 5202 QUIETWRITER III PRINTER

5202-001 e	Quietwriter III Printer (80-274cps, thermal transfer, 8 concurrent fonts, APA graphics) Incl. Courier 10 Quiet Electronic Font, ribbon cartridge, printhead, wrap plug, accessory kit	1699
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MODEL/FC VPA	DESCRIPTION	PRICE		
	In addition to the options listed below, the Quietwriter III supports the Sheetfeed (FC 7840) and Sheetfeed Paper Tray (FC 7880) of the Quietwriter		8629	Displaywrite series printer support table for Quietwriter III (5.25in) N/C
			1299933	IBM QUIET III High Yield Printer Ribbon 17.50
			1318154	IBM Quiet III Printhead 35
8214 e	Pinwheel Form Feed, Quietwriter III	99	1342514	IBM Quietwriter III Line Cord (extra) 9.50
8362 e	Sheetfeed Adapter Kit (single drawer, for Quietwriter III, prerequisite for FC 7840 Sheetfeed)	35	1318106	IBM Quietwriter III Dust Shield 12.50
1318361	IBM Quietwriter III Sheetfeed Adapter Stand-Off	5.40	S544-4082	IBM Quietwriter III Printer Guide to Operations 25
1318401	IBM Quietwriter III Sheetfeed Adapter Plug	31.50	S544-4084	IBM Quietwriter III Printer Hardware Maintenance and Service 90
	Dual Drawer Sheetfeed support for the Quietwriter III is provided by FC8077 of the 5204 Quickwriter.		S544-4083	IBM Quietwriter III Printer Technical Reference 16
			S544-4122	IBM Quietwriter III Printer Sheetfeed Option Guide to Operations 9
9538 e	Dual Drawer Sheetfeed, Quietwriter III (W/D 9/28/88)	849	S544-4140	IBM Quietwriter III Printer Dual Drawer Sheetfeed Option Guide to Operations 11
6487467	Supply Paper Tray, Dual Drawer, Quietwriter III	55.25	S544-4141	IBM Quietwriter III Printer Dual Drawer Sheetfeed Option Hardware Maintenance and Service 60
6487465	Output Paper Tray, Dual Drawer, Quietwriter III	23.25	S544-4144	IBM Quietwriter III Printer Font Download Option Guide to Operations 10
9620 e	Envelope Feed (req. FC 9538)	299		
8659 e	Font Download Feature, Multilingual, with 16KB Download Cartridge	175		
8670 e	Font Download Feature, Multilingual, without 16KB Download Cartridge	50		
8459 e	Font Download Feature, Word Processing, with 16KB Download Cartridge	175		
8570 e	Font Download Feature, Word Processing, without 16KB Download Cartridge	50		
1318010	IBM Electronic Font III - Artisan 10, Letter Gothic 12, Gothic 17, Title PS	75		
1318020	IBM Electronic Font III - Courier 10 Italic, Courier 12 Italic, Script 12, Boldface Italic PS	75		
1318030	IBM Electronic Font III - Prestige Pica, Prestige Elite, Prestige 17, Modern PS	75		
1318930	IBM Electronic Font III - OCR-A 10, OCR-B 10	75		
1318800	IBM Electronic Font III - Blank Download	125		
8632	Displaywrite series printer support table for Quietwriter III (3.5in)	N/C		
			<u>IBM 5204 QUICKWRITER</u>	
				(Barcode support for the 5204 will be available 3Q88)
			5204-001 e	Quickwriter, serial/parallel (330cps draft, 110cps letter, 55cps Selectric font, cut/continuous forms, 8KB buffer, 24 pin) req. FC5612 parallel cable or FC6685 serial cable 1699
			6685 e	PC Serial Attachment Cable 58.25
			9391 e	32KB Print Buffer 75
			9383 e	DisplayWrite Printer Function Table for 5204 (3.5in) N/C
			9384 e	DisplayWrite Printer Function Table for 5204 (5.25in) N/C
			9018 e	Pinwheel Forms Feed 129
			7000 e	Single Bin Sheetfeed for 5204 and 5202 349
			8077 e	Dual Drawer Sheetfeed for 5204 and 5202 849
			9620 e	Envelope Feed for 5204 299
			9371 e	Font Download Feature, with download cartridge (3.3+5.25in) 175

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MODEL/FC VPA	DESCRIPTION	PRICE
9372 e	Font Download Feature, without download cartridge (3.5+5.25in)	50
S544-4208	Quickwriter Technical Reference Manual	20
S544-4169	Quickwriter Printer Guide to Operations	14.50
S544-4119	Quickwriter Printer Single Bin Sheetfeed Guide to Operations	2.20
S544-4140	Quickwriter Printer Dual Drawer Sheetfeed Guide to Operations	11
S544-4205	Quickwriter Printer Font Download Option Guide to Operations	1.75
S544-4116	Quickwriter Printer Hardware Maintenance and Service	26.25
S544-4120	Quickwriter Printer Single Bin Sheetfeed Hardware Maintenance and Service	5.35
S544-4141	Quickwriter Printer Dual Drawer Sheetfeed Hardware Maintenance and Service	60

IBM 5216 WHEELPRINTER

6030 a	Parallel attachment cable	47
1299756	Single-strike ribbon	9.10
1299757	Multi-strike ribbon	15.25
1353502	Prestige Elite Printwheel	25.25
1353511	Courier 10 Printwheel	25.25
1353105	ASCII Artisan 10 Printwheel	25.25
1353909	ASCII Courier 10 Printwheel	25.25
1353116	ASCII Courier 12 Printwheel	25.25
1353112	ASCII Courier 15 Printwheel	25.25
1353101	ASCII Prestige Elite Printwheel	25.25
1353121	ASCII Gothic 15 Printwheel	25.25
1353125	ASCII Boldface PSM Printwheel	25.25
1353130	ASCII Essay PSM Printwheel	25.25
8655073	Cut Sheet Paper Tray - 8.5in	40
8655088	Cut Sheet Paper Tray - 8.27in	40
6295112	Supply Starter Pac, w/10 Multi-Strike Ribbons, Courier 10, Prestige Elite 12 Printwheels	154
6293724	Supply Starter Pac, w/18 Single-Strike Ribbons, Courier 10, Prestige Elite 12 Printwheels	158

IBM 5218 DISPLAYWRITER PRINTER FOR PC

IBM 5223 WHEELPRINTER E MODEL 1

5427 e	Acoustical Sound Hood	30
7840 e	Sheetfeed	350
7820 e	Pinwheel Forms Feed	75
8655073	Sheetfeed Paper Tray	40
1342514	Line Cord	7.75
1341078	Paper Table	7.50
	See the 5216 Wheelprinter for Cartridge Printwheels	
1337761	IBM Easystrike Correctable Ribbon	8.70
1337764	IBM Easystrike Multipurpose Ribbon Cassette	13.25
1356000	IBM Easystrike Fabric Ribbon Cassette	14.75

PLOTTERS

XY/750	IBM Instruments Plotter B-size, 8-pen	4500
6180-001 e	IBM Color Plotter, A-size, 8-pen, RS-232C Attach, pen speed 15.7in/sec (pen down), 20in/sec (pen up), resolution 0.001in, supplies kit	1285
6180-002 e	IBM Color Plotter, A-size, 8-pen, IEEE488 Attach, pen speed 15.7in/sec (pen down), 20in/sec (pen up), resolution 0.001in, supplies kit	1285
5010 e	Graphics Enhancement Cartridge, increases buffer from 60 to 1KB, char. sets from 5 to 19, 14 new commands, compatibility with HP 7475A	150
5050 e	RS-232C Cable between 6180 and PC	51
5060 e	6180 Programming Manual (=GA66-0501)	29
5070 e	Transparency Supplies Kit for 6180 (16 pens, 100 sheets film, available with original plotter order only)	130
5452382	Transparency Supplies Kit for 7371, 6180 (after initial order)	??
5457803	A-Size Quality Presentation Paper	??
6182-001 e	IBM Auto Feed Color Plotter, A and B-size, 8-pen desktop, RS-232C and IEEE-488 Attach, pen speed 31.5in/sec resolution 0.001in, supplies kit	4150
5020	RS-232C for 5085 Attachment Cable	51
5030	RT PC Cable Adapter for 6182	16
5040	IEEE-488 Cable for 6182	102

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MODEL/FC VPA	DESCRIPTION	PRICE
3117-010 b	Scanner (30 sec/page, 240x240 pel resolution, flat-bed, paper size to 8.5x11, req. 3117 PC Adapter or 3117 Extension Unit)	1095
GA18-2478	3117 Scanner and 3117 Extension Unit Guide to Operations	8.85
SY18-2159	3117 Scanner Hardware Maintenance and Service	75.50
SY18-2105	3117 Scanner Technical Reference	26
3118-010 b	Scanner (12 sec/page, 240x240 pel resolution, feed-through, paper size to 8.5x14, req. High-Speed Adapter or async interface)	2350
3118-020 b	Scanner (12 sec/page, 240x240 pel resolution, automatic document feed to 30pp, paper size to 8.5x14in, req. High-Speed Adapter or async interface)	2750
GA18-2475	3118 Scanner Guide to Operations	28.50
SY18-2158	3118 Scanner Hardware Maintenance and Service	58
SC18-2104	3118 Scanner Technical Reference	33.75
3119-S10	Scanner (300x300 pel resolution, in 128 shades of grey, includes 3119 Adapter/A, cable, power cord and Guide to Operations)	2395

TOKEN-RING NETWORK SUPPORT PUBLICATIONS

6165877	IBM Token-Ring Network Architecture Reference	295
GA27-3677	IBM Token-Ring Network Introduction and Planning Guide	N/C
GA27-3678	IBM Token-Ring Network Installation Guide	N/C
GA27-3714	IBM Token-Ring Network Telephone Twisted Pair Media Guide	N/C
SX27-3710	IBM Token-Ring Network Problem Determination Guide	59.60
GA27-3748	IBM Token-Ring Network Administrator's Guide	N/C
GG24-3062	IBM Token-Ring Network Bridges and Management	N/C

COMMUNICATIONS DEVICES, CROSS-SYSTEM

IBM TOKEN-RING NETWORK

8228-001 b	Multistation Access Unit (attaches up to 8 devices, also attaches to other 8228's)	660
1078	IBM Cabling System Component Housing	103
8218-001 b	Token-Ring Network Copper Repeater (Extends drive distance to 750 meters between 8228s)	1695
3001 b	Rack Mounting Assembly	300
3002 b	Surface Mounting Brackets	20
8219-001 b	Token-Ring Network Optical Fiber Repeater (Extends drive distance to 2km between 8228s)	2295
3001 b	Rack Mounting Assembly	300
3002 b	Surface Mounting Brackets	20
8642551	Precut Token-Ring Patch Cable, 8ft, with Cabling System Connectors	38

IBM PC NETWORK

GG24-1691	IBM PC Network and PC Network Program Introduction	N/C
S68X-2270	IBM NETBIOS Application Development Guide	49.25
5178-001 b	PC Network Translator Unit	595
0238 a	120V Transformer	N/C
S68X-2228	IBM Translator Unit and Cabling Options Technical Reference	9.25
S68X-2268	IBM PC Network Broadband Planning Guide	13.50
0230 a	Base Expander (for 9-72 PC's)	61
	Distance Kits (Adapter to Attach 8 PC's to Base Expander)	
	NOTE: Must order appropriate cabling segments in addition	
0231 a	Short Distance Kit (w/1-foot cord)	40

Peripheral Devices, Cross-System

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MODEL/FC VPA	DESCRIPTION	PRICE
0232 a	Medium Distance Kit (requires 2 x FC 0237)	82
0233 a	Long Distance Kit (requires 4 x FC 0237)	93
	Cabling Segments (Attach PC to Distance Kit/Translator, and Distance Kit to Base Expander	
0234 a	25-Foot Cabling Segment	30
0235 a	50-Foot Cabling Segment	40
0236 a	100-Foot Cabling Segment	61
0237 a	200-Foot Cabling Segment	103
2505 a	IBM PC Network Technical Reference Manual (order via PCTB)	195
S68X-2240	PC Network Hardware Maintenance and Service Manual (New Edition)	86.25
S229-9601	PC Network Hardware Maintenance and Service Manual (order via PCTB)	45
5173-001 b	IBM 5173 PC Network Baseband Extender (Joins up to 10 daisy-chains of up to 8 workstations, extends maximum radius to 400ft)	750
S68X-2266	IBM PC Network Baseband Extender Technical Reference	8.50
1226	IBM PC Network Baseband Extender Rack Mount Kit	50
1229	IBM PC Network Baseband Adapter Cable (serially connects PCs into daisy-chain or to Extender, 25ft, modular plugs both ends)	25
1228	IBM PC Network Baseband General Purpose Cable (connects PC to non-modular telephone receptacle, 25ft, modular plug one end)	35
1227	IBM Cabling System PC Network Baseband Cable (connects PC or Extender to Cabling System Jack, 25ft, modular plug plus Data Connector)	35
S68X-2269	IBM PC Network Baseband Planning Guide	17.50

EXPANSION SLOT USAGE

In the following layouts, the term "DASD Controller Adapter" refers to the PC/AT-based combination fixed-diskette and diskette adapter.

PC (5150)

Slot Type	Item
1	Long
2	Long
3	Long
4	Long
5	Long

Figure 22. 5150-104 Expansion Slot Usage

Slot Type	Item
1	Long
2	Long
3	Long
4	Long
5	Long Diskette Adapter

Figure 23. 5150-166, -176 Expansion Slot Usage

PC/XT (5160)

Slot Type	Item
1	Long
2	Long
3	Long
4	Long
5	Long
6	Long Diskette Adapter
7	Short
8	Short

Figure 24. 5160-068, -078 Expansion Slot Usage

Slot Type	Item
1	Long
2	Long
3	Long
4	Long
5	Long Fixed Disk Adapter
6	Long Diskette Adapter
7	Short
8	Short Async Adapter

Figure 25. 5160-086, -087 Expansion Slot Usage

PC/XT/370 (5160-589)

As of September 20, 1988

Slot Type	Item
1	Long
2	Long 3278/79 Emulation Adapter
3	Long XT/370 Memory Card
4	Long XT/370 Processor Card
5	Long Fixed Disk Adapter
6	Long Diskette Adapter
7	Short Asynch Adapter
8	Short

Figure 26. 5160-589 Expansion Slot Usage

PC/XT 286 (5162-286)

Slot Type	Item
1	8-bit
2	16-bit
3	16-bit Serial/Parallel Adapter
4	16-bit
5	16-bit
6	16-bit DASD Controller Adapter
7	8-bit short
8	8-bit short

Figure 27. 5162-286 Expansion Slot Usage

PC/AT (5170)

Slot Type	Item
1	8-bit
2	16-bit
3	16-bit
4	16-bit
5	16-bit
6	16-bit
7	8-bit
8	16-bit DASD Controller Adapter

Figure 28. 5170-068 Expansion Slot Usage

Slot Type	Item
1	8-bit
2	16-bit
3	16-bit
4	16-bit
5	16-bit
6	16-bit
7	8-bit Serial/Parallel Adapter
8	16-bit DASD Controller Adapter

Figure 29. 5170-099, -239 Expansion Slot Usage

SERIES/1 PC/AT (5170-495)

Slot Type	Item
1	8-bit
2	16-bit
3	16-bit
4	16-bit 6-Port Host/Terminal Attachment
5	16-bit
6	16-bit Series/1 Processor
7	8-bit Serial/Parallel Adapter
8	16-bit DASD Controller Adapter

Figure 30. 5170-495 Expansion Slot Usage

PC/AT/370 (5170-599, -739)

Slot Type	Item
1	8-bit
2	16-bit
3	16-bit
4	16-bit 3278/79 Emulation Adapter
5	16-bit AT/370 Memory Card
6	16-bit AT/370 Processor Card
7	8-bit Serial/Parallel Adapter
8	16-bit DASD Controller Adapter

Figure 31. 5170-599, -739 Expansion Slot Usage

3270-PC (5271) WITH 5272 OR 5151 DISPLAY

Note that the Programmed Symbols or All-Points Addressable Adapter, if installed, must be placed in a slot immediately on

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either side of the Display Adapter, i.e., either slot 2 or slot 4.

Slot	Type	Item
1	Long	3270 System Adapter
2	Long	
3	Long	Display Adapter
4	Long	
5	Long	
6	Long	Diskette Adapter
7	Short	
8	Short	Keyboard Adapter

Figure 32. 5271-002 Expansion Slot Usage

Slot	Type	Item
1	Long	3270 System Adapter
2	Long	
3	Long	Display Adapter
4	Long	
5	Long	
6	Long	Diskette Adapter
7	Short	Printer/Memory Adapter
8	Short	Keyboard Adapter

Figure 33. 5271-004 Expansion Slot Usage

Slot	Type	Item
1	Long	3270 System Adapter
2	Long	
3	Long	Display Adapter
4	Long	
5	Long	Fixed Disk Adapter
6	Long	Diskette Adapter
7	Short	Printer/Memory Adapter
8	Short	Keyboard Adapter

Figure 34. 5271-006 Expansion Slot Usage

3270-PC (5271) WITH 3295 DISPLAY

The 3295 Display Adapter includes the functions of the Programmed Symbols and All-Points Addressable Adapters.

Slot	Type	Item
1	Long	3270 System Adapter
2	Long	
3	Long	Display Adapter (3295)
4	Long	
5	Long	
6	Long	Diskette Adapter
7	Short	Printer/Memory Adapter
8	Short	Keyboard Adapter

Figure 35. 5271-024 Expansion Slot Usage

Slot	Type	Item
1	Long	3270 System Adapter
2	Long	
3	Long	Display Adapter (3295)
4	Long	
5	Long	Fixed Disk Adapter
6	Long	Diskette Adapter
7	Short	Printer/Memory Adapter
8	Short	Keyboard Adapter

Figure 36. 5271-026 Expansion Slot Usage

Slot	Type	Item
1	Long	Printer Adapter
2	Long	
3	Long	Display Adapter
4	Long	
5	Long	
6	Long	Diskette Adapter
7	Short	3270 System Adapter
8	Short	Keyboard Adapter

Figure 37. 5271-030, -P30, -050, -P50 Expansion Slot Usage

Slot	Type	Item
1	Long	Expanded Memory/Printer Adapter
2	Long	
3	Long	Display Adapter
4	Long	
5	Long	
6	Long	Diskette Adapter
7	Short	3270 System Adapter
8	Short	Keyboard Adapter

Figure 38. 5271-031, -P31, -051, -P51 Expansion Slot Usage

Slot Type	Item
1 Long	Printer Adapter
2 Long	
3 Long	Display Adapter
4 Long	
5 Long	Fixed Disk Adapter
6 Long	Diskette Adapter
7 Short	3270 System Adapter
8 Short	Keyboard Adapter

Figure 39. 5271-070, -P70 Expansion Slot Usage

Slot Type	Item
1 Long	Expanded Memory/Printer Adapter
2 Long	
3 Long	Display Adapter
4 Long	
5 Long	Fixed Disk Adapter
6 Long	Diskette Adapter
7 Short	3270 System Adapter
8 Short	Keyboard Adapter

Figure 40. 5271-071, -P71 Expansion Slot Usage

3270-PC/AT (5273) WITH 5272 OR 5151 DISPLAY

If one of the Extended Graphics or Programmed Symbols Adpaters is installed, it must be placed in slot 2. If both the Extended Graphics and Programmed Symbols Adpaters are installed, they must be placed in slots 2 and 3.

Slot Type	Item
1 8-bit	Display Adapter
2 16-bit	
3 16-bit	
4 16-bit	
5 16-bit	Keyboard Adapter
6 16-bit	Serial/Parallel Adapter
7 8-bit	3270 System Adapter
8 16-bit	DASD Controller Adapter

Figure 41. 5273-020 Expansion Slot Usage

Slot Type	Item
1 8-bit	Display Adapter
2 16-bit	
3 16-bit	
4 16-bit	Memory Adapter
5 16-bit	Keyboard Adapter
6 16-bit	Serial/Parallel Adapter
7 8-bit	3270 System Adapter
8 16-bit	DASD Controller Adapter

Figure 42. 5273-041 Expansion Slot Usage

Slot Type	Item
1 8-bit	Display Adapter
2 16-bit	Extended Graphics Adapter
3 16-bit	
4 16-bit	Memory Adapter
5 16-bit	Keyboard Adapter
6 16-bit	Serial/Parallel Adapter
7 8-bit	3270 System Adapter
8 16-bit	DASD Controller Adapter

Figure 43. 5273-042 Expansion Slot Usage

Slot Type	Item
1 8-bit	Display Adapter
2 16-bit	
3 16-bit	
4 16-bit	Memory Adapter
5 16-bit	Keyboard Adapter
6 16-bit	Serial/Parallel Adapter
7 8-bit	3270 System Adapter
8 16-bit	DASD Controller Adapter

Figure 44. 5273-061 Expansion Slot Usage

Slot Type	Item
1 8-bit	Display Adapter
2 16-bit	Extended Graphics Adapter
3 16-bit	
4 16-bit	Memory Adapter
5 16-bit	Keyboard Adapter
6 16-bit	Serial/Parallel Adapter
7 8-bit	3270 System Adapter
8 16-bit	DASD Controller Adapter

Figure 45. 5273-062 Expansion Slot Usage

Slot Type	Item
1	8-bit Display Adapter
2	16-bit
3	16-bit
4	16-bit 128K Memory Adapter
5	16-bit Keyboard Adapter
6	16-bit Serial/Parallel Adapter
7	8-bit 3270 System Adapter
8	16-bit DASD Controller Adapter

Figure 46. 5273-070, -P70 Expansion Slot Usage

Slot Type	Item
1	8-bit Display Adapter
2	16-bit
3	16-bit
4	16-bit Expanded Memory/Printer Adapter
5	16-bit Keyboard Adapter
6	16-bit
7	8-bit 3270 System Adapter
8	16-bit DASD Controller Adapter

Figure 47. 5273-071, -P71 Expansion Slot Usage

3270-PC/G/GX (5371)

Slot Type	Item
1	Long Display Adapter
2	Long 3270 System Adapter
3	Long
4	Long Keyboard/Tablet/Mouse
5	Long
6	Long Diskette Adapter
7	Short Printer Adapter
8	Short

Figure 48. 5371-012 Expansion Slot Usage

Slot Type	Item
1	Long Display Adapter
2	Long 3270 System Adapter
3	Long
4	Long Keyboard/Tablet/Mouse
5	Long
6	Long Diskette Adapter
7	Short Printer Adapter
8	Short

Figure 49. 5371-014 Expansion Slot Usage

Slot Type	Item
1	Long Display Adapter
2	Long 3270 System Adapter
3	Long 64/256 Memory Adapter
4	Long Keyboard/Tablet/Mouse
5	Long
6	Long Diskette Adapter
7	Short Printer/Memory Adapter
8	Short

Figure 50. 5371-016 Expansion Slot Usage

3270-PC/AT/G/GX (5373)

In the configurations below, the "X" in the model number designates either "0" (as in "061") for normal keyboards, or "A" (as in "A61") for APL keyboards.

Slot Type	Item
1	8-bit
2	16-bit
3	16-bit
4	16-bit
5	16-bit
6	16-bit Display/Mouse/Tablet
7	8-bit Serial/Parallel Adapter
8	16-bit DASD Controller Adapter

Figure 51. 5373-X60 Expansion Slot Usage

Slot Type	Item
1	8-bit 3270 System Adapter
2	16-bit 128 KB Memory Expansion
3	16-bit
4	16-bit
5	16-bit
6	16-bit Display/Mouse/Tablet
7	8-bit Serial/Parallel Adapter
8	16-bit DASD Controller Adapter

Figure 52. 5373-X61 Expansion Slot Usage

Slot Type	Item
1	8-bit 3270 System Adapter
2	16-bit
3	16-bit 512 KB Memory Expansion
4	16-bit
5	16-bit
6	16-bit Display/Mouse/Tablet
7	8-bit Serial/Parallel Adapter
8	16-bit DASD Controller Adapter

Figure 53. 5373-X62 Expansion Slot Usage

In the configurations below, the "X" in the model number designates either "A" (as in "A29") for APL keyboards, or "E" (as in "E29") for PC Enhanced keyboards.

Slot Type	Item
1	8-bit 3270 System Adapter
2	16-bit
3	16-bit 512KB/2MB Memory Expansion
4	16-bit
5	16-bit
6	16-bit Display/Mouse/Tablet
7	8-bit Serial/Parallel Adapter
8	16-bit DASD Controller Adapter

Figure 54. 5373-X29, -X39 Expansion Slot Usage

PERSONAL SYSTEM/2 MODEL 25 (8525)

The Personal System/2 Model 25 has integrated display, serial, parallel, pointing device, DASD, and earphone adapters. Slot

layout conforms to the PC bus.

Slot Type	Item
1	Long
2	8-inch

Figure 55. 8525 Expansion Slot Usage

PERSONAL SYSTEM/2 MODEL 30 (8530)

The Personal System/2 Model 30 has integrated display, serial, parallel, pointing device, and DASD adapters. Slot layout conforms to the PC bus.

Slot Type	Item
1	Long
2	Long
3	Long

Figure 56. 8530 Expansion Slot Usage

| PERSONAL SYSTEM/2 MODEL 30 286 (8530)

| The Personal System/2 Model 30 286 has integrated display, serial, parallel, pointing device, and DASD adapters. Slot layout conforms to the PC/AT bus.

Slot Type	Item
1	16-bit
2	16-bit
3	16-bit

| Figure 57. 8530 286 Expansion Slot Usage

PERSONAL SYSTEM/2 MODEL 50 (8550)

The Personal System/2 Model 50 has integrated display, serial, parallel, pointing device, and DASD adapters. Slot layout conforms to the IBM Micro-Channel Architecture (MCA).

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Slot Type	Item
1	MCA-16
2	MCA-16
3	MCA-16 (slot has video bus extension)

Figure 58. 8550 Expansion Slot Usage

PERSONAL SYSTEM/2 MODEL 60 (8560)

The Personal System/2 Model 60 has integrated display, serial, parallel, pointing device, and DASD adapters. Slot layout conforms to the IBM Micro-Channel Architecture (MCA).

Slot Type	Item
1	MCA-16
2	MCA-16
3	MCA-16
4	MCA-16
5	MCA-16
6	MCA-16 (slot has video bus extension)
7	MCA-16

Figure 59. 8560 Expansion Slot Usage

PERSONAL SYSTEM/2 MODEL 70 (8570)

The Personal System/2 Model 70 has integrated display, serial, parallel, pointing device, and DASD adapters. Slot layout

conforms to the IBM Micro-Channel Architecture (MCA).

Slot Type	Item
1	MCA-16 (slot has video bus extension)
2	MCA-32
3	MCA-32

Figure 60. 8570 Expansion Slot Usage

PERSONAL SYSTEM/2 MODEL 80 (8580)

The Personal System/2 Model 80 has integrated display, serial, parallel, pointing device, and DASD adapters. Slot layout conforms to the IBM Micro-Channel Architecture (MCA).

Slot Type	Item
1	MCA-32
2	MCA-32
3	MCA-16
4	MCA-32
5	MCA-16
6	MCA-16 (slot has video bus extension)
7	MCA-16

Figure 61. 8580 Expansion Slot Usage

IBM CABLING SYSTEM

The following is a summary of the major cabling types of the IBM Cabling System. Drive distances and lobe distances are with respect to the IBM Token-Ring Local Area Network.

- Type 1: Two shielded twisted pair for data, balanced (maximum recommended lobe 100m, up to 260 attaching devices; 750m maximum drive distance from 8218 repeater)
- Type 2: Two shielded pair as in Type 1, plus four unshielded twisted pair for voice
- Type 3: Media specification for telephone twisted pair, two unshielded twisted pair for data (maximum recommended lobe 45m, up to 72 attaching devices)
- Type 5: Optical fiber, for use between 8228's only (2km maximum drive distance from 8219 repeater)
- Type 6: Data patch cable, drive distance approximately 3/4 of Type 1 (i.e., count as 4/3x actual length); available from IBM in pre-assembled lengths of 2.4m, 9.1m, 22.9m, 45.7m
- Type 8: Undercarpet cable, drive distance approximately 1/2

of Type 1 (i.e., count as 2x actual length)

- Type 9: Media specification for plenum data cable, drive distance approximately 3/4 of Type 1 (i.e., count as 4/3x actual length)

Type	Description	Size	Part Number
1	Data Cable	22 AWG	4716748
	Plenum Data Cable	22 AWG	4716749
	Outdoor Data Cable	22 AWG	4716734
2	Data & Telephone	22 AWG	4716739
	Data & Telephone Plenum	22 AWG	4716738
3	Telephone Twisted Pair	22/24 AWG	---
5	Optical Fiber	100/140 micron	4716744
6	Patch Cable	26 AWG	4716743
8	Undercarpet	26 AWG	---
9	Plenum Data Cable	26 AWG	6339583

Figure 62. Cabling System Characteristics

TECHNICAL SUPPORT

TECHNICAL COORDINATOR PROGRAM

(Executive Brochure, G520-4226)

Customers who have a Volume Purchase Agreement or other volume-based contract in place select one or more Personal Computer Technical Coordinators. These individuals, who are customer employees, are nominated by the customer and registered by the IBM Branch Marketing Office at IBM's discretion. A Technical Coordinator is responsible for end-user support in the areas of program usage and education, as opposed to defect-related service, which is handled by a Service Coordinator (see below). A given individual may be registered as both a Technical Coordinator and a Service Coordinator.

Note that a customer is qualified to nominate Technical Coordinators by virtue of having a volume-based contract currently in effect. A valid volume contract number must be entered by the Branch Office during the registration procedure.

The number of Technical Coordinators is generally based on the size of the volume-based contract. Note that under the Customer Fulfillment Option, purchases of IBM PC system units from authorized dealers count toward attainment of the volume-based contract, and toward eligibility for an increased number of Technical Coordinators.

System Units	Technical Coordinators
20- 49	1
50-149	2
150-249	3
250-499	5
500-999	7
1000 and up	By Request

Figure 63. Technical Coordinator Levels

The Technical Coordinator is supported by IBM's North-Central Marketing Division (NCMD) and South-West Marketing Division (SWMD) through the Personal Computer Assistance Center (PCAC)

and local NCMD/SWMD branch activities. During the contract period of the Volume Purchase Agreement, the PCAC:

- Administers an education program for the Coordinator; and
- Provides assistance as required for all supported PC-related products marketed by NCMD and SWMD. This support includes:
 - ASKINFO electronic question-answering facility and data base; and
 - "800" telephone support.

ASKINFO features:

- A data base of questions submitted by customer Technical Coordinators and IBM Systems Engineers since the introduction of the IBM Personal Computer, together with answers provided by personnel at the PCAC and other support centers.
- A search facility which allows Technical Coordinators to retrieve data base items by keyword.
- An electronic mail facility to help Technical Coordinators author new questions and route them to the appropriate support center for answering. IBM's target is to answer questions within 24 hours.

ASKINFO support is available for the 12-month duration of a volume-based contract. There is no charge for use and telephone access is toll-free.

Supported communications speeds are 1200bps and 2400bps. Existing ASKINFO users who elect to change to 2400bps support from 1200bps must request a new ASKINFO program diskette.

In addition, through the Major Function Support offering, ASKINFO support is available for a 3-month period, at IBM's discretion, following the first installation of certain products at a customer's establishment. The current registration period extends through December 31, 1987. The PC-related products supported are:

- Personal Services/PC
- DisplayWrite 4
- Series/1-PC Connect

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- IBM PC Local Area Network Program
- IBM PC 3270 Emulation Program, V.3
- IBM 3270-PC High Level Language Application Programming Interface (HLLAPI)
- 3270-PC Upgrade: Expanded Memory Adapter (XMA)
- IBM Token-Ring Network PC Adapter

"800" telephone support is a second level of support available to Technical Coordinators. Technical Coordinators call the 800 number, leave an abstract of their question, and receive a callback within 24 hours from an IBM product expert for a discussion of the question.

"800" telephone support is available for the first six months of a 12-month volume-based contract.

NCMD/SWMD branch offices support their customers through a number of activities, including Technical Coordinator Seminars, communications system design reviews, application design reviews, etc.

See your IBM marketing representative for more details.

TECHNICAL COORDINATOR EDUCATION

TECHNICAL COORDINATOR TRAINING COURSE

The IBM Personal Computer Technical Coordinator Training Course modules (Course number G4002) presents the hardware, architecture, and Disk Operating System for the IBM Personal Computer in two videos and fourteen computer-based instruction modules. Each module is independent, and students may skip subjects already mastered.

Students may enroll in this 2-1/2 to 3-day course by calling their local IBM Guided Learning Center. The tuition for this course is \$60 per half day, however, newly registered Technical Coordinators will be eligible to take this course on a nonbillable basis.

Subjects covered include:

- Using the ASKINFO data base
- Hardware overview, setup, and diagnostics
- System architecture, interrupts, and BIOS
- DOS fundamentals and advanced topics
- Debug workshop

See your IBM representative for more information.

Technical Support

SELF-SERVICER MAINTENANCE CLASS

This fee class, held in Atlanta, Georgia, is designed for a company or organization that wishes to perform its own Personal Computer maintenance. Typical accounts might have a minimum of 400 IBM Personal Computers presently installed and off warranty.

This 2-1/2 day class teaches:

- Hardware function and operation
- Problem determination procedures
- Servicer diagnostics and service procedures
- Service parts ordering terms and conditions.

To obtain enrollment packets and current prices, call your local National Service Division branch office. For more information, call IBM NSD Service Education, (404) 847-6543.

OTHER

IBM provides a number of classes of interest to the Technical Coordinator. In this Reference, see

- "Support Publications - Policy" on page 85,
- "Support Publications - Managing End User Computing" on page 85,
- "IBM Information Systems Management Institute" on page 107,
- "Technical Seminars" on page 110,
- "Science Research Associates - Leased Courses" on page 108.

PC UNIVERSITY

The PC University is a marketing program of non-fee seminars, 4 days in duration, held in Boca Raton, Florida. The seminars will be held approximately monthly.

WHO IS THE AUDIENCE? The intended audience includes key customer decision-makers who require detailed technical information on IBM workstation products to assist them in making decisions on workstation directions within their companies. The attendee will be a high-level technical executive charged with making or advising upon PC installation decisions.

WHO MAY ATTEND? This program is a major marketing support offering of the South West and North Central Marketing Divisions only. It is available to SWMD and NCMD customer accounts who have a Volume Purchase Agreement or Special Bid in place.

WHAT IS THE CONTENT OF THE SEMINARS? The intent of the PC University is to give the attendee an opportunity to have

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hands-on experience with IBM workstation products that are announced, but not yet available. Each seminar will include access to the product development managers for information on product direction and positioning. Product developers will be available to help answer questions of a more technical nature.

The agenda is not intended to be fixed. As new products are announced, PC University modules covering older product offerings will be replaced by the newly announced products. An early seminar will have very different modules from one held six months later.

The PC University offers technical information at an intermediate level, with more technical content than an overview. Product internals will not generally be covered.

WHAT DOES IT COST? There is no charge for attending PC University. The customer will pay for his own travel and lodging expenses.

HOW DO I ENROLL? The hands-on environment of PC University requires limited seating. Attendance is by invitation only, via a nomination process through the local IBM Area office. See your IBM Marketing Representative for details.

SOFTWARE DEFECT SUPPORT

Personal Computer software is generally sold "as is."

Software indicated by the phrase "Central Service" above is supported by IBM for defect correction. Customers may mail-in or call-in defect documentation for resolution by IBM or the developing organization, depending on the product.

This support is typically for a limited period, as described in the program announcement.

- "Central service to..." indicates that service will be provided up to a certain date.
- "Central service for..." indicates that service will be provided for a certain duration after delivery to the customer.
- "Central service ... notice" indicates that IBM will not withdraw service until having given a certain period of notice.

Products have varying registration requirements for obtaining central service. Some require that a Quantity Discount Agreement be in effect, others require mailing a registration card. See the announcement material for each product for details.

Certain products have extended support, as described below.

Technical Support

SOFTWARE EXTENDED SUPPORT

TERMS AND CONDITIONS

(Executive Brochure, GH30-9017)

Licensed users of selected IBM Personal Computer program products may subscribe to the IBM Extended Support Option via a 12-month subscription. One subscription provides defect and non-defect support for multiple IBM licensed programs within a program series.

To subscribe to any of these services, call the IBM Extended Support Center in Atlanta at 1-800-IBM-2266.

Defect support is included in the base annual subscription charge. Under this support, the subscriber may mail in requests for correction of defects in supported programs during the subscription period. Purchase of this subscription extends the support of this type normally available for 90 days after purchase of a supported product.

For certain programs, IBM may include any of the following services in the base subscription, as noted in the tables below. If not included, a service may be available for a separate fee. Not all services will be available for all products.

- Support Journal: for certain products, these journals provide operational tips, coding tips, techniques, answers to common questions, and announce availability of updates and new products. Additional Support Journals may be ordered for an annual or per-copy fee.
- Telephone Assistance: for specific product questions, related to either defect or non-defect support, the customer has toll-free access to the Extended Support Telephone Center Telephone assistance, where available, may be available on a "single incident," "multiple incident," or annual fee (where an incident may involve more than one call concerning a particular problem).
- Program updates: the customer may request shipment of program updates for supported programs as available. Updates may be available via either an annual or per-update fee.
- Application Services Subscription: the customer will receive updated non-program data files (e.g., payroll tax tables), together with any available Program Updates.

This support is available to licensed users of the supported programs who desire program-related service or in-depth technical support beyond what is provided with the program. This support is intended to complement existing customer assistance furnished by IBM representatives. Program updates may also be available to non-subscribers for a separate fee.

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	Order No.	Price
Base Subscription (Annual) Incl. Support Journal Subscription Program Service Telephone Assistance Program Updates Automatic Renewal Available thru 12/31/87	6265343	\$ 495
Additional Charge Options: Additional Journal Subscription	6265215	30
Telephone Assistance Single Incident	6265344	150
Program Updates, per update		30

Figure 64. Extended Support - Business Management Series

The following programs are covered as part of the Business Management Series:

- General Ledger Edition
- General Ledger Training
- Accounts Payable Edition
- Accounts Payable Training
- Payroll Edition
- Payroll Training
- Order Entry/Invoicing Edition
- Order Entry/Invoicing Training
- Inventory Accounting Edition
- Inventory Accounting Training
- Accounts Receivable Edition
- Accounts Receivable Training
- Financial Extension Edition
- Accounting Extension Edition
- Local Area Network Access

	Order No.	Price
Base Subscription (Annual) Incl. Support Journal Subscription Program Service Telephone Assistance Program Updates Automatic Renewal Available thru 2/28/88	6265396	\$ 495
Additional Charge Options: Additional Journal Subscription	6265398	30
Single Incident Service	6265397	125
Program Updates, per update		30

Figure 65. Extended Support - Personal Decision Series Version 2

The following programs are covered as part of the Personal De-

Technical Support

cision Series Version 2

- Data Edition
- Reports+ Edition
- Plans+ Edition
- Network+ Edition
- English Access Edition

	Order No.	Price
Base Subscription (Annual) Incl. Support Journal Subscription Program Service Telephone Assistance Program Updates Automatic Renewal Not Available	6265350	\$ 395
Additional Charge Options: Additional Journal Subscription	6265216	30
Telephone Assistance Single Incident	6265277	125
Program Updates, per update		30

Figure 66. Extended Support - Personal Decision Series

The following programs are covered as part of the Personal Decision Series:

- Data Edition
- Data Training Edition
- Reports+ Edition
- Graphs Edition
- Plans Edition
- Plans+ Edition
- Words Edition
- Attachment/36 Edition
- Attachment/370 Edition
- PC Storyboard

	Order No.	Price
Base Subscription (Annual) Incl. Support Journal Subscription Program Service Telephone Assistance Program Updates Automatic Renewal: Not Available	6265409	\$ 395
Additional Charge Options: Additional Journal Subscription	6265410	30
Program Updates, per update	6265411	30
Program Covered: IBM Storyboard Plus, PN 6024401 Service End Date: 4/30/89		

Figure 67. Extended Support - Storyboard Plus

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	Order No.	Price
Single Incident Service	6265412	\$ 75
Support Journal Subscription		
Program Service		
Telephone Assistance		
Program Updates		
Additional Charge Options:		
Program Updates, per update	6265411	30
Program Covered:		
IBM Storyboard Plus, PN 6024401		
Service End Date: 4/30/89		
Figure 68. Extended Support - Storyboard Plus		

	Order No.	Price
Base Subscription (Annual) Incl.	6265460	\$ 200
Program Service		
Automatic Renewal Not Available		
Additional Charge Options:		
Telephone Assistance		
5 Incidents	6265462	225
Single Incident	6265461	55
Program Updates, per update		30
Figure 69. Extended Support - Professional Workstation Series		

The following programs are covered as part of the Professional Workstation Series:

- IBM PC Organizer
- RS/1-PC
- IBM EZ-VU Development Facility
- IBM EZ-VU Runtime Facility
- IBM EZ-VU Editor
- IBM PC/Videotex
- IBM PC/Videotex Jr.
- IBM APLDI/PC
- IBM EZ-Run CSP/Application Execution
- IBM EZ-Prep CSP/Application Generation

Technical Support

	Order No.	Price
Base Subscription (Annual) Incl.	6265342	\$ 395
Support Journal Subscription		
Program Service		
Telephone Assistance		
Program Updates		
Automatic Renewal Available thru 12/31/87		
Payroll Tax Table Service Subscription		
5.25in media	6265280	125
3.5in media	6265340	125
Automatic Renewal Available thru 12/31/88 for tax tables provided thru 12/31/90		
Additional Charge Options:		
Additional Journal Subscription	6265345	30
Telephone Assistance		
Single Incident	6265347	125
Program Updates, per update		30
Figure 70. Extended Support - Accounting Assistant Series		

The following programs are covered as part of the Accounting Assistant Series:

- General Accounting Edition
- Accounts Payable Edition
- Accounts Receivable/Billing Edition
- Payroll Edition
- Inventory Control/Purchasing Edition
- Job Costing Edition

	Order No.	Price
Base Subscription (Annual) Incl.	6265346	\$ 695
Support Journal Subscription		
Program Service		
Telephone Assistance		
Program Updates		
Automatic Renewal Available thru 12/31/88		
Payroll Tax Table Service Subscription		
5.25in media	6265281	125
Automatic Renewal Available thru 12/31/89 for tax tables provided thru 12/31/91		
Additional Charge Options:		
Additional Journal Subscription	6265349	30
Telephone Assistance		
Single Incident	6265348	175
Program Updates, per update		30
Figure 71. Extended Support - Business Adviser Series		

The following programs are covered as part of the Accounting Assistant Series:

- General Accounting Edition
- Accounts Payable Edition

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- Accounts Receivable/Billing Edition
- Payroll Edition
- Inventory Control/Purchasing Edition
- Job Costing Edition

	Order No.	Price
Base Subscription (Annual) Incl.	6265362	\$1200
Support Journal Subscription		
Program Service		
Telephone Assistance		
Program Updates (1 each)		
Automatic Renewal Not Available		
Additional Charge Options:		
Additional Journal Subscription	6265363	30
Program Updates, per update	6265364	30
Single Incident Service, Incl.	6265365	245
One Support Journal		
Telephone Assistance		
Program Service		
One Program Update		
Additional Program Updates	6265364	30

Figure 72. Extended Support - PC 3270 Emulation Version 3

CENTRAL SERVICE - IBM SUPPORT CENTER

IBM supports certain IBM Licensed Programs for defect correction through the National Service Division, IBM Support Center and Information Systems Group, Service Staff Central Service. Correction for programming defects in these products is provided to the customer's Service Coordinators.

These individuals, who are customer employees, are nominated by the customer and registered by the IBM Branch Marketing Office. A Service Coordinator is responsible for end-user support in the areas of program defect resolution and service distribution, as opposed to usage-related assistance, which is handled by a Technical Coordinator (see above). A given individual may be registered as both a Technical Coordinator and a Service Coordinator.

Note that a customer is qualified to nominate Service Coordinators by virtue of having purchased a supported IBM product; a volume-related purchase contract does not generally have to be in effect. If no volume-based contract is in effect, a Service Coordinator may be registered by the IBM Branch Marketing Office for "FE Entitlement Only" using the standard contract number, 37661.

Customers who were designated as Technical Coordinators and registered (as of December 17, 1985) for defect support will

Technical Support

now be supported as Service Coordinators registered for defect support. Support will continue as defined under the terms and conditions of the designated IBM licensed programs.

TERMS AND CONDITIONS

The following is a paraphrase of the terms of support typical for these products. See the announcement material for each product for specific terms and conditions.

Central service, including the IBM Support Center of the National Service Division will be available until the termination date.

The IBM Support Center will provide the customer-designated registered Service Coordinator with telephone assistance in problem diagnosis and resolution. The customer-designated registered Service Coordinator may call the IBM Support Center at any time, and will receive a return call within one business day.

Certain programs require that a Quantity Discount Agreement (QDA) be signed in order for the customer to receive service. In such cases, support will be provided only to QDA-contracted customers via designated customer Service Coordinators. For customers ordering less than 20 licenses and desiring central service support, a QDA must be signed.

The customer Service Coordinator will act as the interface between the customer and the IBM Support Center.

Preventive service is provided on a cumulative basis through refreshes; no source code is provided. One copy of each refresh and its supporting documentation will be provided to the customer's Service Coordinator. The customer's Service Coordinator is responsible for making and distributing copies to workstations that have the program installed. One copy is allowed per licensed program. There may be a distribution charge for refreshes.

Additional copies of the refreshes and supporting documentation may be ordered by the Service Coordinator.

Corrective service will be provided only to customer Service Coordinators through program patches; these are applicable only to current refresh levels.

ELIGIBLE PROGRAMS

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Program

3270-PC Control Program
3270-PC Graphics Control Program
3270-PC/Color Graphics Application (GGXA)
3270-PC/Color Graphics Charting (GGXC)
VM/PC
PC/VM Bond
PS/PC

Figure 73. NSD Support Eligible Programs

MAINTENANCE

IBM Service/Exchange Communication Center (800) 428-2569

MAINTENANCE OPTION DESCRIPTIONS

Machine maintenance charges include coverage for all components of the standard configuration for the model. Expansion unit charges include one 10MB fixed disk drive. Prices below are for 12-month term. Some geographic restrictions apply.

IBM service personnel may remove and reinstall non-IBM option cards in IBM PCs being serviced by IBM when the IBM service representative determines that the removal or reinstallation will facilitate IBM problem isolation or maintenance of the IBM portion of the PC.

If the customer wishes IBM to remove a failing non-IBM machine or feature and install a similar non-IBM, customer-supplied, replacement item, this service is available for an annual charge per system unit. This service is available only on IBM PC system units for which IBM On-Site Repair Type of Service is selected under an IBM maintenance agreement or provided under an IBM warranty. It is not available for non-IBM items for which IBM offers maintenance agreement service.

Under IBM's Expanded Support offering for non-IBM products, (a service available at extra cost) IBM will at the customer's direction purchase commercially available non-IBM products at the time of failure, for replacement of an identical or similar failing non-IBM machine or feature. This offering does not apply to warranty service for the non-IBM device, but is available for devices attached to any IBM PC system unit with an On-Site Repair maintenance agreement or On-Site Repair warranty-type.

For machines not covered by warranty or maintenance options, the customer may elect to have service done on a time-and-

materials basis.

HOURLY MAINTENANCE

Carry-In Service options are:

- Customer Carry-In Repair hourly service
- Customer Carry-In Exchange hourly service.

Charges for IBM hourly service provided at designated IBM Service / Exchange Centers are:

- The current standard rate for all Service / Exchange Center products is \$115 per hour.
- The current minimum is 7/10 of an hour and applies to each machine or machine element requiring either a repair or a repair estimate.
- Actual time in excess of the 7/10 of an hour minimum will be charged in tenths of an hour, rounded to the nearest tenth of an hour.
- There are additional charges, as applicable, for replacement parts, shipping and other applicable expenses.

IBM On-Site Service options are:

- IBM On-Site Repair hourly service
- IBM On-Site Exchange hourly service.

Charges for IBM hourly service provided at customer sites are:

- The current minimum is one hour for repair or one hour for exchange, plus travel expense.
- There are additional charges, as applicable, for replacement parts, shipping and other applicable expenses.

Machines and machine elements that have been exchanged by IBM, and replacement parts that are installed in an IBM hourly service incident, are warranted for three months.

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MAINTENANCE PLANS

IBM ON-SITE REPAIR

IBM will repair and test the failing machine at the customer's site.

IBM ON-SITE EXCHANGE

IBM will deliver to the customer's site a functionally equivalent machine in good working order and replace the failing machine with this exchange machine. IBM will set up and test the exchange machine and remove the failing machine from the customer's premises.

CUSTOMER ON-SITE EXCHANGE

IBM will have a functionally equivalent machine in good working order delivered to the customer's site. The customer will disconnect the failing machine and return the failing machine to IBM, in accordance with IBM's instructions. IBM is responsible for both outbound and inbound shipping charges.

CUSTOMER CARRY-IN EXCHANGE

The customer will deliver the failing machine to any of more than 100 IBM Service/Exchange Centers or other IBM designated locations. IBM will exchange a functionally equivalent machine in good working order for the failing machine. The customer, in lieu of such delivery, may ship the failing machine prepaid only to one of the IBM Service/Exchange Centers designated to receive such shipments. IBM will ship the exchange machine prepaid to the customer's location in the United States or Puerto Rico.

As of October 1, 1987, IBM will no longer market the Customer Carry-in Exchange (CCE) type of service. Effective January 1, 1988, customers who have previously purchased CCE service will no longer be able to renew this type of service. Service/Exchange Centers will begin closing October 1, 1987.

MAINTENANCE OPTIONS - SYSTEM UNITS AND PERIPHERALS

TYPE/MODEL	DESCRIPTION	IBM On-Site Repair	IBM On-Site Exch.	Cust. On-Site Exch.	Carry In Exch.	Carry In Repair
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Maintenance

CUSTOMER CARRY-IN REPAIR

The customer will deliver the failing machine to any of more than 100 IBM Service/Exchange Centers or other IBM designated locations. IBM will repair the machine and notify the customer as soon as it is ready for pick up. The customer, in lieu of such delivery, may ship the failing machine prepaid only to one of the IBM Service/Exchange Centers designated to receive such shipments. Following any necessary repairs, IBM will ship it prepaid to the customer's location in the United States or Puerto Rico.

SERVICE ALTERNATIVES

For products marketed by both IBM and IBM Authorized Dealers(1), where a CCE or CCR type of service has been selected under warranty, the customer may select one of the following when placing a service call:

- Upgrade the service delivery to a more convenient, on-site (IOR or IOE) type of service for this request, at the applicable charge(2), or
- Deliver their product to an IBM Authorized Dealer, or
- Deliver their product to an IBM designated location.

For products marketed primarily by IBM and covered by an IBM Maintenance Agreement providing for CCE or CCR types of service, or products covered by an IBM warranty providing for the same types of service, the customer may select one of the following when placing a service call:

- Receive service via a nationwide courier service supplied by IBM at no additional charge, or
- Upgrade the service delivery to a more convenient, on-site (IOR or IOE) type of service for this request, at the applicable charge(2), or
- Deliver their product to an IBM designated location.

(1) Authorized IBM Personal Computer Dealers, Authorized IBM Typewriter Dealers, IBM Selected Products Dealers, and IBM Value Added Dealers.

(2) This flat rate charge of \$80 is a change to IBM's previous practice for this type of service and applies only when upgraded service is provided. Billable service provided outside hours of coverage, or not covered by an IBM agreement, will be invoiced at the applicable IBM Hourly Service rate and terms.

As of September 20, 1988

TYPE/MODEL	DESCRIPTION	IBM On-Site Repair #9798	IBM On-Site Exch. #9830	Cust. On-Site Exch. #9824	Carry In Exch. #9816	Carry In Repair #9821
		#9798	#9830	#9824	#9816	#9821
3117-010	Scanner	20.00	N/A	N/A	N/A	10.00
3118-010	Scanner	65.00	N/A	N/A	N/A	30.00
3118-020	Scanner	130.00	N/A	N/A	N/A	60.00
3295-001	Plasma Monitor	124.00	N/A	N/A	N/A	N/A
3363-A01	Optical Disk Dr	288.00	N/A	N/A	N/A	N/A
3363-A11	Optical Disk Dr	288.00	N/A	N/A	N/A	N/A
3363-B01	Optical Disk Dr	264.00	N/A	N/A	N/A	N/A
3852-001	Color Ink-Jet Prtr	N/A	137.00	98.00	N/A	96.00
3852-002	Color Jetprinter	N/A	109.00	78.00	N/A	78.00
4201-001	Proprinter	N/A	41.00	30.00	N/A	30.00
4201-002	Proprinter II	49.00	N/A	N/A	N/A	38.00
4202-001	Proprinter XL	N/A	105.00	85.00	N/A	60.00
4207-001	Proprinter X24	102.00	N/A	N/A	N/A	85.00
4203-001	Proprinter XL24	122.00	N/A	N/A	N/A	101.00
4216-020	Personal Pageprinter	324.00	N/A	N/A	N/A	252.00
4683-001	POS Terminal	162.00	162.00	131.00	N/A	131.00
4683-002	POS Terminal	72.00	72.00	52.00	N/A	52.00
4707-001	Monochrome Display	N/A	20.00	N/A	N/A	N/A
4712-001	Transaction Printer	90.00	N/A	N/A	N/A	N/A
4712-002	Transaction Printer	90.00	N/A	N/A	N/A	N/A
4717-001	Magnetic Str Rdr	N/A	15.00	N/A	N/A	N/A
4717-002	Magnetic Str Rdr/Enc	N/A	35.00	N/A	N/A	N/A
4717-003	Magnetic Str Rdr/Enc	N/A	35.00	N/A	N/A	N/A
4718-001	Personal ID Keypad	N/A	10.00	N/A	N/A	N/A
4722-001	Document Printer	100.00	N/A	N/A	N/A	N/A
4722-002	Document Printer	100.00	N/A	N/A	N/A	N/A
4860-004	PCjr-64k, no disk	75.00	N/A	N/A	N/A	42.00
4860-067	PCjr-128k, 1 disk	135.00	N/A	N/A	N/A	75.00
4863-001	PCjr Color Display	N/A	32.50	22.00	N/A	22.00
4865-001	Ext. 3.5in Diskette	N/A	31.00	22.00	N/A	N/A
4865-002	Ext. 3.5in Diskette	N/A	31.00	22.00	N/A	N/A
4869-001	Ext. 5.25in Diskette	N/A	56.00	50.00	N/A	N/A
4950-A00	S/1 PC, 10MB, 1 disk	959.00	N/A	N/A	N/A	633.00
4950-B00	S/1 PC, 1 disk	653.00	N/A	N/A	N/A	435.00
4971-001	S/1 Printer	N/A	166.00	104.00	N/A	104.00
5083-002	Digital Tablet	N/A	96.00	48.00	N/A	N/A
5083-11A	Digital Tablet	N/A	55.00	32.00	N/A	N/A
5083-12A	Digital Tablet	N/A	60.00	35.00	N/A	N/A
5140-002	Convertible	160.00	N/A	N/A	N/A	110.00
5140-003	Convertible	176.00	N/A	N/A	N/A	N/A
5140-022	Convertible	160.00	N/A	N/A	N/A	110.00
5144-001	Convertible Mono CRT	N/A	18.00	10.00	N/A	N/A
5145-001	Convertible Color CRT	N/A	40.00	26.00	N/A	N/A
5150-001	System Unit	171.00	N/A	N/A	N/A	110.00
5150-013	System Unit	171.00	N/A	N/A	N/A	110.00
5150-014	System Unit	231.00	N/A	N/A	N/A	149.00
5150-074	System Unit	248.00	N/A	N/A	N/A	160.00
5150-104	System Unit-64K	171.00	N/A	N/A	N/A	110.00
5150-114	System Unit-1SS-64K	231.00	N/A	N/A	N/A	149.00

Maintenance

As of September 20, 1988

TYPE/MODEL	DESCRIPTION	IBM On-Site Repair #9798	IBM On-Site Exch. #9830	Cust. On-Site Exch. #9824	Carry In Exch. #9816	Carry In Repair #9821
5150-X14	System Unit-1SS-64K	231.00	N/A	N/A	N/A	149.00
5150-164	System Unit-1DS-64K	248.00	N/A	N/A	N/A	160.00
5150-X64	System Unit-1DS-64K	248.00	N/A	N/A	N/A	160.00
5150-X66	System Unit-1DS-256K	248.00	N/A	N/A	N/A	160.00
5150-166	System Unit-1DS-256K	248.00	N/A	N/A	N/A	160.00
5150-174	System Unit-2DS-64K	248.00	N/A	N/A	N/A	160.00
5150-X74	System Unit-2DS-64K	248.00	N/A	N/A	N/A	160.00
5150-X76	System Unit-2DS-256K	248.00	N/A	N/A	N/A	160.00
5150-176	System Unit-2DS-256K	248.00	N/A	N/A	N/A	160.00
5150-813	System Unit	171.00	N/A	N/A	N/A	110.00
5150-823	System Unit	171.00	N/A	N/A	N/A	110.00
5151-001	Mono Display	N/A	29.00	16.00	N/A	16.00
5152-001/2	Printer	N/A	41.00	30.00	N/A	30.00
5153-001	Color Display	N/A	55.00	40.00	N/A	40.00
5154-001	Enhanced Color Disp	N/A	65.00	42.00	N/A	42.00
5155-068	Portab.PC-1DS-256KB	264.00	N/A	N/A	N/A	175.00
5155-076	Portab.PC-2DS-256KB	264.00	N/A	N/A	N/A	175.00
5160-068	System Unit XT-1 DS	312.00	N/A	N/A	N/A	216.00
5160-078	System Unit XT-2 DS	312.00	N/A	N/A	N/A	216.00
5160-086	System Unit XT-256KB	480.00	N/A	N/A	N/A	348.00
5160-087	System Unit XT-128KB	480.00	N/A	N/A	N/A	348.00
5160-088	XT-512KB, 20MB	480.00	N/A	N/A	N/A	348.00
5160-089	XT-512KB, 20MB	480.00	N/A	N/A	N/A	348.00
5160-267	XT-256KB,1 HH DS	312.00	N/A	N/A	N/A	216.00
5160-268	XT-256KB,1 HH DS	312.00	N/A	N/A	N/A	216.00
5160-277	XT-256KB,2 HH DS	312.00	N/A	N/A	N/A	216.00
5160-278	XT-256KB,2 HH DS	312.00	N/A	N/A	N/A	216.00
5160-470	4700 XT System Unit	312.00	N/A	N/A	N/A	216.00
5160-568	XT/370-1DS, 3277	482.00	N/A	N/A	N/A	325.00
5160-588	XT/370-10MB, 3277	650.00	N/A	N/A	N/A	457.00
5160-589	XT/370-10MB, 2-card	650.00	N/A	N/A	N/A	457.00
5161-001/2	Expansion Unit	293.00	N/A	N/A	N/A	212.00
5161-003	Expansion Unit 20MB	461.00	N/A	N/A	N/A	344.00
5162-286	XT 286-20MB	336.00	N/A	N/A	N/A	240.00
5167-001	TEMPEST Mono Displ	N/A	69.00	52.00	N/A	N/A
5169-002	Quietwriter 2 T	378.00	N/A	N/A	N/A	168.00
5170-068	PC/AT-256KB,1 HCD	364.00	N/A	N/A	N/A	234.00
5170-099	PC/AT-512KB, 20MB	507.00	N/A	N/A	N/A	338.00
5170-239	PC/AT-512KB, 30MB	546.00	N/A	N/A	N/A	375.00
5170-319	PC/AT-512KB, 30MB	546.00	N/A	N/A	N/A	375.00
5170-339	PC/AT-512KB, 30MB	546.00	N/A	N/A	N/A	375.00
5170-495	S/1 PCAT,20MB	788.00	N/A	N/A	N/A	535.00
5170-496	S/1 PCAT,30MB	970.00	N/A	N/A	N/A	752.00
5170-599	PC/AT/370	684.00	N/A	N/A	N/A	451.00
5170-739	PC/AT/370	716.00	N/A	N/A	N/A	484.00
5170-839	PC/AT POS 30MB	667.00	N/A	N/A	N/A	457.00
5170-849	PC/AT POS 30MB	667.00	N/A	N/A	N/A	457.00
5170-899	PC/AT POS 20MB	609.00	N/A	N/A	N/A	407.00
5170-919	PC/AT/370 30MB	716.00	N/A	N/A	N/A	484.00
5170-939	PC/AT/370 30MB	716.00	N/A	N/A	N/A	484.00
5171-168	PC/AT Tempest	495.00	N/A	N/A	N/A	395.00

As of September 20, 1988

TYPE/MODEL	DESCRIPTION	IBM On-Site Repair #9798	IBM On-Site Exch. #9830	Cust. On-Site Exch. #9824	Carry In Exch. #9816	Carry In Repair #9821
5171-339	PC/AT Tempest 30MB	595.00	N/A	N/A	N/A	485.00
5175-001	Profes'l Graf Displ	N/A	60.00	41.00	N/A	41.00
5181-001	Compact Printer	N/A	N/A	18.00	N/A	11.00
5182-001	Color Printer	N/A	587.00	379.00	N/A	379.00
5201----	Quietwriter printer	215.00	N/A	N/A	N/A	110.00
5202-001	Quietwriter III	200.00	N/A	N/A	N/A	130.00
5204-001	Quickwriter	335.00	N/A	N/A	N/A	N/A
5216----	Wheelprinter	N/A	195.00	125.00	N/A	110.00
5223-001	Wheelprinter E	N/A	126.00	72.00	N/A	66.00
5271-002	3270PC-1DS,256K	362.00	N/A	N/A	N/A	235.00
5271-004	3270PC-2DS,320/384K	362.00	N/A	N/A	N/A	235.00
5271-006	3270PC-10MB,320/384K	560.00	N/A	N/A	N/A	389.00
5271-024	3270PC-2DS,384K	392.00	N/A	N/A	N/A	256.00
5271-026	3270PC-10MB,384K	588.00	N/A	N/A	N/A	412.00
5271-P30	3270PC-1 HH, 640K	362.00	N/A	N/A	N/A	235.00
5271-P31	3270PC-1 HH, XMA	362.00	N/A	N/A	N/A	235.00
5271-P50	3270PC-2 HH, 640K	362.00	N/A	N/A	N/A	235.00
5271-P51	3270PC-2 HH, XMA	362.00	N/A	N/A	N/A	235.00
5271-P70	3270PC-20MB, 640K	560.00	N/A	N/A	N/A	389.00
5271-P71	3270PC-20MB, XMA	560.00	N/A	N/A	N/A	389.00
5271-030	3270PC-1 HH, 640K	362.00	N/A	N/A	N/A	235.00
5271-031	3270PC-1 HH, XMA	362.00	N/A	N/A	N/A	235.00
5271-050	3270PC-2 HH, 640K	362.00	N/A	N/A	N/A	235.00
5271-051	3270PC-2 HH, XMA	362.00	N/A	N/A	N/A	235.00
5271-070	3270PC-20MB, 640K	560.00	N/A	N/A	N/A	389.00
5271-071	3270PC-20MB, XMA	560.00	N/A	N/A	N/A	389.00
5272-001	3270PC-Display	N/A	70.00	55.00	N/A	55.00
5273-020	3270PCAT-1HC	350.00	N/A	N/A	N/A	225.00
5273-041	3270PCAT-2HC	350.00	N/A	N/A	N/A	225.00
5273-042	3270PCAT-2HC,XGA	350.00	N/A	N/A	N/A	225.00
5273-061	3270PCAT-1HC,20MB	488.00	N/A	N/A	N/A	325.00
5273-062	3270PCAT 20MB,XGA	488.00	N/A	N/A	N/A	325.00
5273-P70	3270PCAT 30MB,640KB	546.00	N/A	N/A	N/A	375.00
5273-P71	3270PCAT 30MB,XMA	546.00	N/A	N/A	N/A	375.00
5273-070	3270PCAT 30MB,640KB	546.00	N/A	N/A	N/A	375.00
5273-071	3270PCAT 30MB,XMA	546.00	N/A	N/A	N/A	375.00
5277-001	Mouse	N/A	48.00	36.00	30.00	N/A
5278-001	Display Attach Unit	N/A	N/A	88.00	N/A	88.00
5278-002	Display Attach Unit	N/A	N/A	88.00	N/A	88.00
5279-001	14in Display (G)	N/A	N/A	17.00	N/A	17.00
5371-012	3270PC/G,GX-1DS-384K	362.00	N/A	N/A	N/A	235.00
5371-014	3270PC/G,GX-2DS-512K	362.00	N/A	N/A	N/A	235.00
5371-016	3270PC/G,GX-10M-576K	580.00	N/A	N/A	N/A	483.00
5373-012	3270-PC/AT G/GX	514.00	N/A	N/A	N/A	339.00
5373-014	3270-PC/AT G/GX	514.00	N/A	N/A	N/A	339.00
5373-016	3270-PC/AT G/GX	514.00	N/A	N/A	N/A	339.00
5373-160	3270-PC/AT G/GX	534.00	N/A	N/A	N/A	352.00
5373-A60	3270-PC/AT G/GX	534.00	N/A	N/A	N/A	352.00
5373-161	3270-PC/AT G/GX	534.00	N/A	N/A	N/A	352.00
5373-A61	3270-PC/AT G/GX	534.00	N/A	N/A	N/A	352.00
5373-162	3270-PC/AT G/GX	534.00	N/A	N/A	N/A	352.00

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5373-A62	3270-PC/AT G/GX	534.00	N/A	N/A	N/A	352.00
5373-A29	3270-PC/AT G/GX	572.00	N/A	N/A	N/A	389.00
5373-A39	3270-PC/AT G/GX	572.00	N/A	N/A	N/A	389.00
5373-E29	3270-PC/AT G/GX	572.00	N/A	N/A	N/A	389.00
5373-E39	3270-PC/AT G/GX	572.00	N/A	N/A	N/A	389.00
5378-C01	Display Att(PC/GX-C)	288.00	N/A	N/A	N/A	186.00
5378-M01	Display Att(PC/GX-M)	222.00	N/A	N/A	N/A	144.00
5379-C01*	19in Display (GX-C)	84.00	N/A	N/A	N/A	N/A
5379-M01*	19in Display (GX-M)	66.00	N/A	N/A	N/A	N/A
5531-001	Indust PC	586.00	N/A	N/A	N/A	372.00
5531-011	Indus PC(1 diskette)	282.00	N/A	N/A	N/A	180.00
5531-021	Indust PC	586.00	N/A	N/A	N/A	372.00
5532----	Indust PC Display	N/A	N/A	170.00	N/A	N/A
5841-001	IBM Sync/Async Modem	N/A	68.00	31.00	N/A	31.00
5842-001	IBM Sync/Async Modem	N/A	66.00	30.00	N/A	30.00
5853-001	IBM Sync/Async Modem	N/A	72.00	48.00	N/A	N/A
6152-022	Sys Unit	285.00	N/A	N/A	N/A	N/A
6152-024	Sys Unit	285.00	N/A	N/A	N/A	N/A
6152-044	Sys Unit	325.00	N/A	N/A	N/A	N/A
6152-048	Sys Unit	325.00	N/A	N/A	N/A	N/A
6152-074	Sys Unit	365.00	N/A	N/A	N/A	N/A
6152-078	Sys Unit	365.00	N/A	N/A	N/A	N/A
6153-001	Adv Mono Graf Display	N/A	69.00	60.00	N/A	N/A
6154-001	Adv Color Graf Display	N/A	170.00	160.00	N/A	N/A
6155-001	Ext Mono Graf Display	N/A	105.00	94.00	N/A	N/A
6157-001	Streaming Tape Drive	N/A	140.00	130.00	N/A	N/A
6156-001	Portable Disk Drive	150.00	N/A	N/A	N/A	N/A
6156-003	Portable Disk Drive	350.00	N/A	N/A	N/A	N/A
6180-001	A-Size Plotter, RS232	N/A	84.00	45.00	N/A	45.00
6180-002	A-Size Plotter, IEEE488	N/A	84.00	45.00	N/A	45.00
6186----	A-E Size Plotter	360.00	N/A	N/A	N/A	N/A
6192-001	Expansion Unit	163.00	N/A	N/A	N/A	N/A
7371-001	Color Plotter	N/A	183.00	102.00	N/A	96.00
7372-001	Color Plotter	N/A	213.00	113.00	N/A	108.00
7531-041	Indust PC/AT	420.00	N/A	N/A	N/A	N/A
7531-111	Indust PC/AT	515.00	N/A	N/A	N/A	N/A
7532-041	Indust PC/AT	420.00	N/A	N/A	N/A	N/A
7532-111	Indust PC/AT	515.00	N/A	N/A	N/A	N/A
7534-001	Enh.Indust PC Display	N/A	88.00	56.00	N/A	56.00
7552-040	Indust PC/AT	804.00	N/A	N/A	N/A	N/A
7552-140	Indust PC/AT, 10MB	1176.00	N/A	N/A	N/A	N/A
7552-540	Indust PC/AT, 20MB	1176.00	N/A	N/A	N/A	N/A
8218-001	Token Copper Repeater	N/A	N/A	18.00	N/A	N/A
8219-001	Token Optic Repeater	N/A	N/A	50.00	N/A	N/A
8228-KT1	Token Starter Kit	N/A	N/A	45.00	N/A	N/A
8228-KT2	Token Starter Kit	N/A	N/A	45.00	N/A	N/A
8228-KT3	Token Starter Kit/A	N/A	N/A	45.00	N/A	N/A
8228-001	Multist'n Access Unit	N/A	N/A	45.00	N/A	N/A
8503----	Pers Sys/2 Mono Displ	N/A	9.00	8.00	N/A	N/A
8507----	Pers Sys/2 Mono Displ	N/A	10.00	N/A	N/A	N/A
8512----	Pers Sys/2 Color Disp	N/A	10.00	9.00	N/A	N/A

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8513----	Pers Sys/2 Color Disp	N/A	11.00	10.00	N/A	N/A
8514----	Pers Sys/2 Color Disp	N/A	46.00	44.00	N/A	N/A
8525-C02	Pers System/2 Mdl 25	80.00	N/A	N/A	N/A	N/A
8525-C05	Pers System/2 Mdl 25	90.00	N/A	N/A	N/A	N/A
8525-G01	Pers System/2 Mdl 25	80.00	N/A	N/A	N/A	N/A
8525-G04	Pers System/2 Mdl 25	90.00	N/A	N/A	N/A	N/A
8525-K02	Pers System/2 Mdl 25	80.00	N/A	N/A	N/A	N/A
8525-K05	Pers System/2 Mdl 25	90.00	N/A	N/A	N/A	N/A
8525-001	Pers System/2 Mdl 25	80.00	N/A	N/A	N/A	N/A
8525-004	Pers System/2 Mdl 25	90.00	N/A	N/A	N/A	N/A
8525-L01	Pers System/2 Mdl 25	80.00	N/A	N/A	N/A	N/A
8525-L04	Pers System/2 Mdl 25	90.00	N/A	N/A	N/A	N/A
8530-002	Pers System/2 Mdl 30	115.00	N/A	N/A	N/A	N/A
8530-R02	Pers System/2 Mdl 30	115.00	N/A	N/A	N/A	N/A
8530-021	Pers System/2 Mdl 30	160.00	N/A	N/A	N/A	N/A
8530-R21	Pers System/2 Mdl 30	160.00	N/A	N/A	N/A	N/A
8530-E01	Pers System/2 Mdl 30	164.00	N/A	N/A	N/A	N/A
8530-E21	Pers System/2 Mdl 30	164.00	N/A	N/A	N/A	N/A
8550-021	Pers System/2 Mdl 50	180.00	N/A	N/A	N/A	N/A
8550-R21	Pers System/2 Mdl 50	180.00	N/A	N/A	N/A	N/A
8560-041	Pers System/2 Mdl 60	190.00	N/A	N/A	N/A	N/A
8560-071	Pers System/2 Mdl 60	210.00	N/A	N/A	N/A	N/A
8570-E61	Pers System/2 Mdl 70	276.00	N/A	N/A	N/A	N/A
8570-121	Pers System/2 Mdl 70	300.00	N/A	N/A	N/A	N/A
8570-A21	Pers System/2 Mdl 70	396.00	N/A	N/A	N/A	N/A
8580-041	Pers System/2 Mdl 80	220.00	N/A	N/A	N/A	N/A
8580-071	Pers System/2 Mdl 80	260.00	N/A	N/A	N/A	N/A
8580-111	Pers System/2 Mdl 80	305.00	N/A	N/A	N/A	N/A
8580-311	Pers System/2 Mdl 80	350.00	N/A	N/A	N/A	N/A

* Not a Service/Exchange Center machine.

MAINTENANCE OPTIONS - SELECTED NON-IBM PRODUCTS

1537-A01	Hayes Transet 128K Buffr	N/A	80.00	65.00	N/A	65.00
1537-B01	Hayes Transet 512K Buffr	N/A	90.00	75.00	N/A	75.00
1538-A01	HP 7470A Color Plotter	N/A	145.00	130.00	N/A	130.00
1538-B01	HP 7475A Color Plotter	N/A	165.00	150.00	N/A	150.00
1538-C01	HP 7550A Color Plotter	N/A	275.00	260.00	N/A	260.00
1543-A01	HP Thinkjet Printer	N/A	130.00	115.00	N/A	115.00
	Epson FX-185	N/A	120.00	105.00	N/A	105.00
1551-A01	Epson FX-100, 100+	N/A	120.00	105.00	N/A	105.00
1552-A01	Okidata ML93A	N/A	190.00	130.00	N/A	130.00
1552-B01	Okidata ML93I	N/A	190.00	130.00	N/A	130.00
1556-S01	Amdek 310-A Display	N/A	45.00	30.00	N/A	30.00
1560-A01	Tecmar Q60H	N/A	160.00	135.00	N/A	135.00
1561-A01	Tecmar Q60W20	N/A	510.00	470.00	N/A	470.00
1561-B01	Tecmar Q60W20AT	N/A	965.00	925.00	N/A	925.00
1575-A01	Hayes Smartmodem 300	N/A	80.00	65.00	N/A	65.00

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1575-B01	Hayes Smartmodem 1200	N/A	110.00	95.00	N/A	95.00
1580-A01	Amdek 300A	N/A	50.00	35.00	N/A	35.00
1580-B01	Amdek 300	N/A	50.00	35.00	N/A	35.00
1581-A01	Giltronix Sharing Device	N/A	130.00	86.00	N/A	86.00
3030	AST Advantage 128	95.00	N/A	N/A	N/A	85.00
3031	AST Advantage 128S	95.00	N/A	N/A	N/A	85.00
3032	AST Advantage 512	105.00	N/A	N/A	N/A	95.00
3033	AST Advantage 512S	105.00	N/A	N/A	N/A	95.00
3034	AST Advantage 1125	115.00	N/A	N/A	N/A	105.00
3035	AST Advantage 1125S	115.00	N/A	N/A	N/A	105.00
3036	AST Advantage 1500	125.00	N/A	N/A	N/A	115.00
3037	AST Advantage 1500S	125.00	N/A	N/A	N/A	115.00
3038	AST Advantage 3000	160.00	N/A	N/A	N/A	150.00
3039	AST Advantage 3000S	160.00	N/A	N/A	N/A	150.00
3040	Emulex DCP 88VM 512K	120.00	N/A	N/A	N/A	110.00
3041	Forte Graph Card	280.00	N/A	N/A	N/A	270.00
3042	Forte PJ	215.00	N/A	N/A	N/A	205.00
3043	Hercules Color Card	45.00	N/A	N/A	N/A	35.00
3044	Hercules Graph Card	55.00	N/A	N/A	N/A	45.00
3045	DCA Irma 1.42	110.00	N/A	N/A	N/A	105.00
3046	AST 4 Port	40.00	N/A	N/A	N/A	35.00
3047	AST I/O Plus II 1S	40.00	N/A	N/A	N/A	35.00
3048	AST I/O Plus II 2S	40.00	N/A	N/A	N/A	35.00
3049	AST I/O Plus II 1S/1P	40.00	N/A	N/A	N/A	35.00
3050	AST I/O Plus II 2S/1P	40.00	N/A	N/A	N/A	35.00
3051	AST Preview	40.00	N/A	N/A	N/A	35.00
3052	AST Ramvantage 128K	70.00	N/A	N/A	N/A	65.00
3053	AST Ramvantage 512K	70.00	N/A	N/A	N/A	65.00
3054	AST Ramvantage 1MB	80.00	N/A	N/A	N/A	75.00
3056	AST Ramvantage 3MB	100.00	N/A	N/A	N/A	95.00
3057	AST Rampage 256K	40.00	N/A	N/A	N/A	35.00
3058	AST Rampage 512K	45.00	N/A	N/A	N/A	40.00
3059	AST Rampage 1MB	50.00	N/A	N/A	N/A	45.00
3060	AST Rampage 2MB	65.00	N/A	N/A	N/A	60.00
3061	AST Rampage 256K I/O	45.00	N/A	N/A	N/A	40.00
3062	AST Rampage 512K I/O	50.00	N/A	N/A	N/A	45.00
3063	AST Rampage 1MB I/O	60.00	N/A	N/A	N/A	55.00
3064	AST Rampage 2MB I/O	70.00	N/A	N/A	N/A	65.00
3065	AST Rampage AT 512K	80.00	N/A	N/A	N/A	75.00
3066	AST Rampage AT 1MB	90.00	N/A	N/A	N/A	85.00
3067	AST Rampage AT 2MB	100.00	N/A	N/A	N/A	95.00
3068	AST Rampage AT512K IO	85.00	N/A	N/A	N/A	80.00
3069	AST Rampage AT 1MB IO	95.00	N/A	N/A	N/A	90.00
3070	AST Rampage AT 2MB IO	105.00	N/A	N/A	N/A	100.00
3071	AST Rampage AT512K IOS	90.00	N/A	N/A	N/A	85.00
3072	AST Rampage AT1MB IOS	100.00	N/A	N/A	N/A	95.00
3073	AST Rampage AT2MB IOS	110.00	N/A	N/A	N/A	100.00
3100	AST I/O Mini 1S	40.00	N/A	N/A	N/A	35.00
3101	AST I/O Mini 1S, 1P	40.00	N/A	N/A	N/A	35.00
3102	AST I/O Mini 2S	40.00	N/A	N/A	N/A	35.00
3103	AST I/O Mini 2S, 1P	40.00	N/A	N/A	N/A	35.00

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6714	Tallgrass Tape Backup	110.00	N/A	N/A	N/A	105.00
6727	Irwin Tape Backup	100.00	N/A	N/A	N/A	95.00
7600	Hayes Smartmodem 1200B	65.00	N/A	N/A	N/A	55.00
7602	Chi Sperry Emulation	80.00	N/A	N/A	N/A	70.00
7603	Chi Sperry Emulation	80.00	N/A	N/A	N/A	70.00
7612	Emulex DCP-88/VM-128K	120.00	N/A	N/A	N/A	110.00
7613	Emulex DCP-88/VM-256K	150.00	N/A	N/A	N/A	140.00
7619	AST FourPort/XN	40.00	N/A	N/A	N/A	35.00
7625	IRMA, 1597S01	110.00	N/A	N/A	N/A	100.00
7630	INS 8100 RLOOP	155.00	N/A	N/A	N/A	145.00
7640	AST 3780BSCRJE,1596S01	50.00	N/A	N/A	N/A	40.00
7700	Tecmar PCHOST	55.00	N/A	N/A	N/A	50.00
7701	Tecmar Q60AT	235.00	N/A	N/A	N/A	215.00
7800	AST COMBOPLUS,1596A01	50.00	N/A	N/A	N/A	40.00
7802	AST MEGAPLUS,1597A01	50.00	N/A	N/A	N/A	40.00
7804	AST MEGAPAK,1597A01	50.00	N/A	N/A	N/A	40.00
7806	AST SPK064,1597A01	50.00	N/A	N/A	N/A	40.00
7809	AST SPK192,1597A01	50.00	N/A	N/A	N/A	40.00
7812	AST SPK384,1597A01	55.00	N/A	N/A	N/A	45.00
7820	Tecmar Jr.Captain	50.00	N/A	N/A	N/A	40.00
7830	Tecmar Jr.Cadet	50.00	N/A	N/A	N/A	40.00
7850	Tecmar Maestro 128K	50.00	N/A	N/A	N/A	40.00
7851	Tecmar Maestro 384K	65.00	N/A	N/A	N/A	60.00
7852	Tecmar Maestro 640K	90.00	N/A	N/A	N/A	85.00
7853	Tecmar Maestro 1664K	155.00	N/A	N/A	N/A	145.00
7854	Tecmar Maestro 2560K	210.00	N/A	N/A	N/A	200.00

MAINTENANCE OPTIONS - FEATURES

System unit charges above have these features included where applicable.

0005	PCjr Diskette Dr	60.00	N/A	N/A	N/A	33.00
0205	20MB Fixed Disk AT	143.00	N/A	N/A	N/A	104.00
0210	30MB Fixed Disk AT	203.00	N/A	N/A	N/A	156.00
0300	Port PC Diskette	60.00	N/A	N/A	N/A	33.00
0400	3101 Cable 1.8m	12.00	N/A	N/A	N/A	12.00
0401	3101 Cable 15m	12.00	N/A	N/A	N/A	12.00
0468	30MB Fixed Disk AT	203.00	N/A	N/A	N/A	156.00
1501	Profes'l Graf Ctrl'r	164.00	N/A	N/A	N/A	109.00
1509	XT/370 Option,2-card	170.00	N/A	N/A	N/A	109.00
2500	10MB Fixed Disk XT	168.00	N/A	N/A	N/A	132.00
2887	5520-S/3X Emulation	22.50	N/A	N/A	N/A	14.50
3200	S/370 Channel Emul.	248.00	N/A	N/A	N/A	217.00
3320	50-Key Keyboard	22.00	22.00	13.00	12.00	12.00
3322	Alphanum Keyboard	40.00	40.00	27.00	24.00	24.00
3326	20MB Fixed Disk	168.00	N/A	N/A	N/A	132.00
3339	Shopper Display	17.00	17.00	10.00	8.00	8.00
3340	Operator Display	21.00	21.00	12.00	10.00	10.00
3343	40 Char Display	19.00	19.00	14.00	13.00	13.00

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3352	346mm Color Display	48.00	48.00	34.00	31.00	31.00
3354	300mm Display	25.00	116.00	98.00	93.00	93.00
3360	Cash Drawer, Fixed	19.00	19.00	13.00	11.00	11.00
3361	Cash Drawer, Adj.	19.00	19.00	14.00	12.00	12.00
3380	Printer	112.00	112.00	84.00	76.00	76.00
3891	XT/370 Option, 3277	170.00	N/A	N/A	N/A	109.00
4000	Feature Expan A	30.00	30.00	22.00	19.00	19.00
4001	Feature Expan B	9.00	9.00	6.00	5.00	5.00
4002	Feature Expan C	22.00	22.00	16.00	14.00	14.00
4003	Feature Expan D	31.00	31.00	26.00	24.00	24.00
4010	Mag Stripe Reader	7.00	7.00	5.00	4.00	4.00
4014	Scanner Adapter	7.00	7.00	4.00	3.00	3.00
4016	Mag Wand Reader	103.00	103.00	80.00	73.00	73.00
4016	Mag Wand Reader	13.00	N/A	N/A	N/A	N/A
4771	Voice Commo Option	See FC	4839			
4839	Voice Commo Adapter	40.00	N/A	N/A	N/A	30.00
4805	Internal Async Modem	12.00	N/A	N/A	N/A	6.00
4829	Internal Async Modem	12.00	N/A	N/A	N/A	6.00
5063	Token-Ring Adapt II	65.00	N/A	N/A	N/A	55.00
5321	PC 3278 Attach Opt	36.00	N/A	N/A	N/A	24.00
5315/6	3278 PC Attach	36.00	N/A	N/A	N/A	24.00
5322	PC 3279 Attach Opt	36.00	N/A	N/A	N/A	24.00
5325/6	3279 PC Attach	36.00	N/A	N/A	N/A	24.00
6017/8	Indus Disk/Adapt	306.00	N/A	N/A	N/A	198.00
6019	Indus Hi-Cap D'ette	138.00	N/A	N/A	N/A	N/A
6045	Indus 2-Side D'ette	138.00	N/A	N/A	N/A	N/A
6050	ARTIC, 128KB	72.00	N/A	N/A	N/A	48.00
6115	AT/370 Option Kit	170.00	N/A	N/A	N/A	109.00
6160	ARTIC, 512KB	72.00	N/A	N/A	N/A	48.00
6165	ARTIC, 128KB	72.00	N/A	N/A	N/A	48.00
6240	ARTIC, 128KB 4-port	89.00	N/A	N/A	N/A	64.00
6241	ARTIC, 128KB 4-port	89.00	N/A	N/A	N/A	64.00
6166	ARTIC, 512KB	72.00	N/A	N/A	N/A	48.00
6263	ARTIC/2, 512KB	55.00	N/A	N/A	N/A	52.00
7001	AT/G Option Kit	26.00	N/A	N/A	N/A	14.00
7002	AT/GX Option Kit	26.00	N/A	N/A	N/A	14.00
7011	AT/G Option Kit	26.00	N/A	N/A	N/A	14.00
7012	AT/GX Option Kit	26.00	N/A	N/A	N/A	14.00
8002	Store Loop Adapter	121.00	N/A	N/A	N/A	82.00
8700	Optical Disk Dr	324.00	N/A	N/A	N/A	N/A

MACHINE/MACHINE ELEMENT EXCHANGE PRICES

These charges cover Customer Carry-In Exchange hourly service where performed at an IBM Service-Exchange Center.

	Exchange Price
4683-001 POS Terminal	631.00

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4683-002	POS Terminal	442.00
4863-001	PCjr Color Display	265.00
4971-002	Series 1 Printer	428.00
5151-001	PC Mono Display	150.00
5152----	PC Graphics Printer	260.00
5153-001	PC Color Display	265.00
5154-001	Enh. Color Display	410.00
5175-001	Pro.Graph.Display	540.00
5181-001	PCjr Compact Prtr	120.00
5182-001	PC Color Printer	575.00
5150/5160	PC Std.Keyboard Only	150.00
5272-001	3270PC Display	542.00
5279-001	3270PC/G Display	480.00
5842-001	2400bps Modem	346.00
3320	POS Keyboard	227.00
3322	Shopper Display	377.00
3339	Operator Display	205.00
3340	POS Keyboard	219.00
3343	40 Char Display	285.00
3352	346mm Display	470.00
3354	300mm Display	269.00
3360	Cash Drawer, Fixed	173.00
3361	Cash Drawer, Adj.	189.00
3380	POS Printer	295.00
4000	Feat Expansion A	195.00
4001	Feat Expansion B	181.00
4002	Feat Expansion C	229.00
4003	Feat Expansion D	357.00
4010	Mag Stripe Reader	182.00
4014	3687 Scanner Adapter	114.00
4016	Mag Wand Reader	312.00

WARRANTY OPTIONS - SYSTEMS UNITS AND PERIPHERALS

TYPE/MODEL	DESCRIPTION	IBM	IBM	Cust.	Cust.
		On-Site Repair #9797	On-Site Exch. #9799	On-Site Exch. #9826	Carry-In Exch. #9814
3117-010	Scanner (FC9805)	10.00	N/A	N/A	
3118-010	Scanner (FC9805)	35.00	N/A	N/A	
3118-020	Scanner (FC9805)	70.00	N/A	N/A	
3363-A01	Optical Disk Dr	12.00	N/A	N/A	
3363-A11	Optical Disk Dr	12.00	N/A	N/A	
3363-B01	Optical Disk Dr	12.00	N/A	N/A	
3852-001	Color Ink-Jet Prtr	N/A	112.00	99.00	
3852-002	Color Jetprinter	N/A	31.00	9.00	
4201-001	Proprinter	N/A	11.00	5.00	
4201-002	Proprinter II	11.00	N/A	N/A	
4202-001	Prop'r XL(FC9876,9773)	N/A	15.00	5.00	
4207-001	Proprinter X24	17.00	N/A	N/A	
4208-001	Proprinter XL24	21.00	N/A	N/A	
4216-020	Personal Pageprinter	72.00	N/A	N/A	

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TYPE/MODEL	DESCRIPTION	IBM On-Site Repair #9797	IBM On-Site Exch. #9799	Cust. On-Site Exch. #9826	Cust. Carry-In Exch. #9814
4683-001	POS Terminal	129.00	129.00	104.00	
4683-002	POS Terminal	59.00	59.00	43.00	
4860-004	PCjr-64k, no disk	39.00	N/A	N/A	
4860-067	PCjr-128K, 1 disk	71.00	N/A	N/A	
4863-001	PCjr Color Display	N/A	7.00	5.00	
4865-001	3.5in Dr(FC9876/9773)	N/A	9.00	4.00	
4865-002	3.5in Dr(FC9876/9773)	N/A	9.00	4.00	
4869-001	Ext. 5.25in Diskette	N/A	19.00	13.00	
4950-A00	S/1 PC, 10MB, 1 disk	422.00	N/A	N/A	
4950-B00	S/1 PC, 1 disk	280.00	N/A	N/A	
4971-001	S/1 Printer	N/A	81.00	18.00	
5083-11A	Digital Tablet	N/A	47.00	27.00	
5083-12A	Digital Tablet	N/A	52.00	32.00	
5140-002	Convertible (FC9805)	55.00	N/A	N/A	
5140-003	Convertible (FC9805)	55.00	N/A	N/A	
5140-022	Convertible (FC9805)	55.00	N/A	N/A	
5144-001	Conv.Mono CRT(FC9876)	N/A	9.00	N/A	
5145-001	Conv.Color CRT(FC9876)	N/A	15.00	N/A	
5150-074	System Unit	218.00	N/A	N/A	
5150-104	System Unit-64K	145.00	N/A	N/A	
5150-114	System Unit-1SS-64K	196.00	N/A	N/A	
5150-X14	System Unit-1SS-64K	196.00	N/A	N/A	
5150-164	System Unit-1DS-64K	218.00	N/A	N/A	
5150-X64	System Unit-1DS-64K	218.00	N/A	N/A	
5150-X66	System Unit-1DS-256K	218.00	N/A	N/A	
5150-166	System Unit-1DS-256K	218.00	N/A	N/A	
5150-174	System Unit-2DS-64K	218.00	N/A	N/A	
5150-X74	System Unit-2DS-64K	218.00	N/A	N/A	
5150-X76	System Unit-2DS-256K	218.00	N/A	N/A	
5150-176	System Unit-2DS-256K	218.00	N/A	N/A	
5151-001	Mono Display	N/A	25.00	15.00	
5152-001/2	Printer	N/A	34.00	28.00	
5153-001	Color Display	N/A	45.00	35.00	
5154-001	Enhanced Color Disp	N/A	25.00	20.00	
5155-068	Portab.PC-1DS-256KB	90.00	N/A	N/A	
5155-076	Portab.PC-2DS-256KB	90.00	N/A	N/A	
5160-068	System Unit XT-1 DS	258.00	N/A	N/A	
5160-078	System Unit XT-2 DS	258.00	N/A	N/A	
5160-086	System Unit XT-256KB	396.00	N/A	N/A	
5160-087	System Unit XT-128KB	396.00	N/A	N/A	
5160-088	XT-512KB, 20MB	396.00	N/A	N/A	
5160-089	XT-512KB, 20MB	396.00	N/A	N/A	
5160-267	XT-256KB,1 HH DS	258.00	N/A	N/A	
5160-268	XT-256KB,1 HH DS	258.00	N/A	N/A	
5160-277	XT-256KB,2 HH DS	258.00	N/A	N/A	
5160-278	XT-256KB,2 HH DS	258.00	N/A	N/A	
5160-470	4700 XT System Unit	258.00	N/A	N/A	
5160-568	XT/370-1DS, 3277	408.00	N/A	N/A	
5160-588	XT/370-10MB, 3277	546.00	N/A	N/A	
5160-589	XT/370-10MB, 2-card	546.00	N/A	N/A	
5161-001/2	Expansion Unit	240.00	N/A	N/A	

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TYPE/MODEL	DESCRIPTION	IBM On-Site Repair #9797	IBM On-Site Exch. #9799	Cust. On-Site Exch. #9826	Cust. Carry-In Exch. #9814
5161-003	Expansion Unit 20MB	375.00	N/A	N/A	
5162-286	Expansion Unit 20MB	96.00	N/A	N/A	
5167-001	TEMPEST Mono Displ	N/A	17.00	5.00	
5169-002	Quietwriter 2 T	210.00	N/A	N/A	
5170-068	PC/AT-256KB,1 HCD	174.00	N/A	N/A	
5170-099	PC/AT-512KB, 20MB	226.00	N/A	N/A	
5170-239	PC/AT-512KB, 30MB	218.00	N/A	N/A	
5170-319	AT-512K,30MB(FC9805)	218.00	N/A	N/A	
5170-339	AT-512K,30MB(FC9805)	218.00	N/A	N/A	
5170-495	S/1 PCAT, 20MB	326.00	N/A	N/A	
5170-496	S/1PCAT,30MB(FC9805)	281.00	N/A	N/A	
5170-599	PC/AT/370	382.00	N/A	N/A	
5170-739	PC/AT/370	368.00	N/A	N/A	
5170-839	PC/AT POS 20MB	210.00	N/A	N/A	
5170-849	PC/AT POS (FC9805)	210.00	N/A	N/A	
5170-899	PC/AT POS 30MB	202.00	N/A	N/A	
5170-919	PC/AT/370(FC9805)	368.00	N/A	N/A	
5170-939	PC/AT/370(FC9805)	368.00	N/A	N/A	
5171-168	PC/AT Tempest	100.00	N/A	N/A	
5171-339	PC/AT Tempest 30MB	110.00	N/A	N/A	
5175-001	Profes'l Graf Displ	N/A	19.00	9.00	
5181-001	Compact Printer	N/A	8.00	3.00	
5182-001	Color Printer	N/A	135.00	44.00	
5201----	Quietwriter printer	105.00	N/A	N/A	
5202-001	Quietwriter printer	171.00	N/A	N/A	
5204-001	Quickwriter	65.00	N/A	N/A	
5216----	Wheelprinter	N/A	165.00	125.00	
5223-001	Wheelprinter E	N/A	108.00	72.00	
5271-002	3270PC-1DS,256K	N/A	N/A	N/A	
5271-004	3270PC-2DS,320/384K	N/A	N/A	N/A	
5271-006	3270PC-10MB,320/384K	N/A	N/A	N/A	
5272-001	3270PC-Display	N/A	N/A	N/A	
5273-020	3270PCAT-1HC	168.00	N/A	N/A	
5273-041	3270PCAT-2HC	168.00	N/A	N/A	
5273-042	3270PCAT-2HC,XGA	168.00	N/A	N/A	
5273-061	3270PCAT-1HC,20MB	218.00	N/A	N/A	
5273-062	3270PCAT 20MB,XGA	218.00	N/A	N/A	
5273-P70	3270PCAT (FC9805)	218.00	N/A	N/A	
5273-P71	3270PCAT (FC9805)	218.00	N/A	N/A	
5273-070	3270PCAT (FC9805)	218.00	N/A	N/A	
5273-071	3270PCAT (FC9805)	218.00	N/A	N/A	
5373-012	3270PCAT/G/GX Sys	218.00	N/A	N/A	
5373-014	3270PCAT/G/GX Sys	218.00	N/A	N/A	
5373-016	3270PCAT/G/GX Sys	218.00	N/A	N/A	
5373-160	3270PCAT/G/GX Sys	226.00	N/A	N/A	
5373-A60	3270PCAT/G/GX Sys	226.00	N/A	N/A	
5373-161	3270PCAT/G/GX Sys	226.00	N/A	N/A	
5373-A61	3270PCAT/G/GX Sys	226.00	N/A	N/A	
5373-162	3270PCAT/G/GX Sys	226.00	N/A	N/A	
5373-A62	3270PCAT/G/GX Sys	226.00	N/A	N/A	
5373-A29	3270PCAT/G (FC9805)	230.00	N/A	N/A	

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TYPE/MODEL	DESCRIPTION	IBM On-Site Repair #9797	IBM On-Site Exch. #9799	Cust. On-Site Exch. #9826	Cust. Carry-In Exch. #9814
5373-A39	3270PCAT/GX(FC9805)	230.00	N/A	N/A	
5373-E29	3270PCAT/G (FC9805)	230.00	N/A	N/A	
5373-E39	3270PCAT/GX(FC9805)	230.00	N/A	N/A	
5531-001	Indust PC	515.00	N/A	N/A	
5531-011	Indus PC(1 diskette)	110.00	N/A	N/A	
5531-021	Indust PC	515.00	N/A	N/A	
5532----	Indust PC Display	N/A	234.00	174.00	
5841-001	IBM Sync/Async Modem	N/A	37.00	6.00	
5842-001	IBM Sync/Async Modem	N/A	36.00	6.00	
5853-001	IBM Sync/Async Modem	N/A	24.00	N/A	
6157-001	Streaming Tape Drive	N/A	10.00	2.00	
6180-001	A-Size Plotter, RS232C	N/A	69.00	49.00	
6180-002	A-Size Plotter, IEEE488	N/A	69.00	49.00	
7371-001	A-Size Plotter	N/A	161.00	97.00	
7372-001	B-Size Plotter	N/A	187.00	111.00	88.00
7534-001	Enh. Indust PC Display	N/A	34.00	27.00	
8218-001	Token Copper Rpt(FC9773)	N/A	N/A	2.00	
8219-001	Token Optic Rptr(FC9773)	N/A	N/A	5.00	
8228-KT1	Token Starter Kit	N/A	N/A	5.00	
8228-KT2	Token Starter Kit	N/A	N/A	5.00	
8228-KT3	Token Starter Kit/A	N/A	N/A	5.00	
8228-001	Multist'n Access Unit	N/A	N/A	5.00	
8503----	Pers Sys/2 Mono Displ	N/A	5.00	4.00	
8512----	Pers Sys/2 Color Disp	N/A	5.00	4.00	
8513----	Pers Sys/2 Color Disp	N/A	5.00	4.00	
8514----	Pers Sys/2 Color Disp	N/A	9.00	7.00	
8525-C02	Pers System/2 Mdl 25	25.00	N/A	N/A	
8525-C05	Pers System/2 Mdl 25	25.00	N/A	N/A	
8525-G01	Pers System/2 Mdl 25	25.00	N/A	N/A	
8525-G04	Pers System/2 Mdl 25	25.00	N/A	N/A	
8525-K02	Pers System/2 Mdl 25	25.00	N/A	N/A	
8525-K05	Pers System/2 Mdl 25	25.00	N/A	N/A	
8525-001	Pers System/2 Mdl 25	25.00	N/A	N/A	
8525-004	Pers System/2 Mdl 25	25.00	N/A	N/A	
8525-L01	Pers System/2 Mdl 25	25.00	N/A	N/A	
8525-L04	Pers System/2 Mdl 25	25.00	N/A	N/A	
8530-002	Pers System/2 Mdl 30	25.00	N/A	N/A	
8530-R02	Pers System/2 Mdl 30	25.00	N/A	N/A	
8530-021	Pers System/2 Mdl 30	25.00	N/A	N/A	
8530-R21	Pers System/2 Mdl 30	25.00	N/A	N/A	
8530-E01	Pers System/2 Mdl 30	25.00	N/A	N/A	
8530-E21	Pers System/2 Mdl 30	25.00	N/A	N/A	
8550-021	Pers System/2 Mdl 50	25.00	N/A	N/A	
8550-R21	Pers System/2 Mdl 50	25.00	N/A	N/A	
8560-041	Pers System/2 Mdl 60	25.00	N/A	N/A	
8560-071	Pers System/2 Mdl 60	25.00	N/A	N/A	
8570-E61	Pers System/2 Mdl 70	25.00	N/A	N/A	
8570-121	Pers System/2 Mdl 70	25.00	N/A	N/A	
8570-A21	Pers System/2 Mdl 70	25.00	N/A	N/A	
8580-041	Pers System/2 Mdl 80	25.00	N/A	N/A	
8580-071	Pers System/2 Mdl 80	25.00	N/A	N/A	

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TYPE/MODEL	DESCRIPTION	IBM On-Site Repair #9797	IBM On-Site Exch. #9799	Cust. On-Site Exch. #9826	Cust. Carry-In Exch. #9814
8580-111	Pers System/2 Mdl 80	25.00	N/A	N/A	
8580-311	Pers System/2 Mdl 80	25.00	N/A	N/A	

WARRANTY OPTIONS - SELECTED NON-IBM PRODUCTS

7625	IRMA	90.00	N/A	N/A
7640	AST 3780 BSC RJE	50.00	N/A	N/A
7800	AST COMBOPLUS	50.00	N/A	N/A
7802	AST MEGAPLUS	50.00	N/A	N/A
7804	AST MEGAPAK	50.00	N/A	N/A
7806	AST SIXPAKPLUS SPK064	50.00	N/A	N/A
7809	AST SIXPAKPLUS SPK194	50.00	N/A	N/A

WARRANTY OPTIONS - FEATURES

System unit charges above have these features included where applicable.

0005	PCjr Diskette Dr	32.00	N/A	N/A
0205	20MB Fixed Disk AT	52.00	N/A	N/A
0468	30MB Fixed Disk AT	52.00	N/A	N/A
0468	30MB Fixed Disk AT	52.00	N/A	N/A
1501	Profes'l Graf Ctrl'r	67.00	N/A	N/A
1509	XT/370 Option, 2-card	150.00	N/A	N/A
2500	Fixed Disk Dr	135.00	N/A	N/A
2887	5520-S/3X Emulation	19.00	N/A	N/A
3320	50-Key Keyboard	19.00	19.00	10.00
3322	Alphanumeric Keyboard	34.00	34.00	21.00
3326	20MB Fixed Disk	135.00	N/A	N/A
3339	Shopper Display	15.00	15.00	8.00
3340	Operator Display	19.00	19.00	10.00
3343	40 Char Display	16.00	16.00	11.00
3352	346mm Color Display	40.00	40.00	26.00
3354	300mm Display	21.00	93.00	75.00
3360	Cash Drawer, Fixed	16.00	16.00	10.00
3361	Cash Drawer, Adj.	16.00	16.00	11.00
3380	Printer	93.00	93.00	65.00
3891	XT/370 Option, 3277	150.00	N/A	N/A
4000	Feature Expan A	25.00	25.00	17.00
4001	Feature Expan B	8.00	8.00	5.00
4002	Feature Expan C	19.00	19.00	13.00
4003	Feature Expan D	25.00	25.00	20.00
4010	Mag Stripe Reader	6.00	6.00	4.00
4014	Scanner Adapter	6.00	6.00	3.00
4016	Mag Wand Reader	85.00	85.00	62.00
4016	Mag Wand Reader	10.00	N/A	N/A
4771	Voice Commo Option	See FC	4839	
4839	Voice Commo Adapter	11.00	N/A	N/A
4805	Internal Async Modem	6.00	N/A	N/A

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TYPE/MODEL	DESCRIPTION	IBM On-Site Repair #9797	IBM On-Site Exch. #9799	Cust. On-Site Exch. #9826	Cust. Carry-In Exch. #9814
4829	Internal Async Modem	6.00	N/A	N/A	
5063	Token-Ring Adapt II	10.00	N/A	N/A	
5321	PC 3278 Attach Opt	27.00	N/A	N/A	
5315/6	3278 PC Attach	27.00	N/A	N/A	
5322	PC 3279 Attach Opt	27.00	N/A	N/A	
5325/6	3279 PC Attach	27.00	N/A	N/A	
6017/8	Indus Disk/Adapt	120.00	N/A	N/A	
6115	AT/370 Option Kit	150.00	N/A	N/A	
6240	ARTIC 128KB 4-Port	25.00	N/A	N/A	
6241	ARTIC 128KB 4-Port	25.00	N/A	N/A	
7001	AT/G Option Kit	12.00	N/A	N/A	
7002	AT/GX Option Kit	12.00	N/A	N/A	
7011	AT/G Opt Kit(FC9805)	12.00	N/A	N/A	
7012	AT/GX Opt Kit(FC9805)	12.00	N/A	N/A	
8002	Store Loop Adapter	39.00	N/A	N/A	
8700	Optical Disk Dr	12.00	N/A	N/A	

FIXED-CHARGE MAINTENANCE ITEMS (ANNUAL MINIMUM MAINTENANCE CHARGE)

1520-A02	Hand Held Scanner			78.00	
4055-001	InfoWindow Display			335.00	
5173-001	PC Network Baseband Extender			116.00	
5178-001	PC Network Translator Unit			29.00	
6150-020	RT PC System Unit, 40MB			750.00	
6150-025	RT PC System Unit, 70MB			925.00	
6150-T25	RT PC System Unit, TEMPEST			1465.00	
6150-125	RT PC System Unit, 70MB ("new processor")			925.00	
6150-135	RT PC System Unit, 114MB (new processor)			1095.00	
6150-A25	RT PC System, 5080 Attach			925.00	
6150-B25	RT PC System Unit, 70MB ("new processor")			925.00	
6150-B35	RT PC System Unit, 114MB (new processor)			1095.00	
6151-010	RT PC System, 40MB			650.00	
6151-015	RT PC System, 70MB			825.00	
6151-115	RT PC System, 70MB ("new processor")			825.00	
6151-130	RT PC System, 114MB (new processor)			895.00	
3426	RT PC 70MB Fixed-Disk Drive			425.00	

MONTHLY MAINTENANCE ITEMS - MMC (MONTHLY)

4250-002	ElectroCompositor Printer			205.00	
4975-02R	Serial Printer			52.00	
1601	Special Print Cartridge			N/C	
1610	Special Print Cartridge			N/C	
6100	Rear Document Insertion Device			1.00	
3812-001	IBM Pageprinter			126.00	
3812-002	IBM Pageprinter			126.00	
3820-001	IBM Page Printer			310.00	
	Monthly Use Charge \$.0126 per impression				

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3050	EIA Interface Attachment	10.00
3035	128KB Control Storage	10.00
3005	256KB Pattern Storage	10.00
3010	512KB Pattern Storage	20.00
3020	1024KB Pattern Storage	40.00
3025	2048KB Pattern Storage	80.00
3030	3072KB Pattern Storage	120.00
3065	4096KB Pattern Storage	160.00
5218-A03	Displaywriter Printer	35.00
5218-A04	Displaywriter Printer (60CPS)	40.00
7850	Tractor Feed for 5218	8.00
7870	Sheet Feed for 5218	20.00
7875	Sheet Feed for 5218 with Envelope Feed	25.00
6182-001	IBM Auto Feed Color Plotter	23.00
6184-001	IBM Color Plotter	180.00
7374-001	IBM Color Plotter	106.00
7375-001	IBM Color Plotter	111.00
7375-002	IBM Color Plotter	101.00
9332-240	SCSI DASD	15.00
9332-250	SCSI DASD	15.00
9332-440	SCSI DASD	27.00
9332-450	SCSI DASD	27.00

WARRANTY PERIOD AND TYPE - SYSTEM UNITS AND PERIPHERALS

	Warranty Period (Months)	Warranty Service Type
CCR = Customer Carry-In Repair		
CCE = Customer Carry-In Exchange		
IOR = IBM On-Site Repair		
IOE = IBM On-Site Exchange		
Mail-in = Customer mails unit in		
System = Same as system unit		
Mfr = Warranty Service direct from Manufacturer		
XY/749	IBM Instruments Plotter - A size	3 CCR
XY/750	IBM Instruments Plotter - B size	3 CCR
1520-A02	Hand Held Scanner	3 CCR
1537-A01	Hayes Transet 1000 Multifunction Buf	24 Mfr
1537-B01	Hayes Transet 1000 Multifunction Buf	24 Mfr
1556-S01	Amdek 310 Monochrome Monitor	24 Mfr
3117-010	Scanner	12 CCR
3118----	Scanner	12 CCR
3295-001	Plasma Monitor	12 IOR
3363----	Optical Disk Drive	12 CCR
3812----	Pageprinter	3 IOR
3852-001	Color Ink-Jet Prtr	3 CCE
3852-002	Color Jetprinter	12 CCE
4055-001	InfoWindow Display	12 IOR
4201-001	Proprinter	12 CCE
4201-002	Proprinter II	12 CCR
4202-001	Proprinter	12 CCE

Maintenance

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	Warranty Period (Months)	Warranty Service Type
4207-001	12	CCR
4208-001	12	CCR
4216-020	12	CCR
4239----	12	??
4250-002	3	IOR
4450----	3	mail-in
4455----	3	mail-in
4459----	3	mail-in
4683----	3	CCE
4860----	12	CCR
4863-001	12	CCE
4865----	12	CCE
4869-001	12	CCE
4950----	3	CCR
4971-001	12	CCE
4975-02R	3	IOR
5063-002	3	IOE
5083-11A	3	CCE
5083-12A	3	CCE
5140----	12	CCR
5144-001	12	CCE
5145-001	12	CCE
5150-X--	3	CCR
5150----	3	CCR
5151-001	3	CCE
5152----	3	CCE
5153-001	3	CCE
5154-001	12	CCE
5155----	12	CCR
5160----	3	CCR
5160-5--	3	CCR
5161----	3	CCR
5162----	12	CCR
5167-001	3	CCE
5169-002	3	CCR
5170----	12	CCR
5171----	12	CCR
5175-001	12	CCE
5178-001	12	CCE
5181-001	12	CCE
5182-001	12	CCE
5201----	3	CCR
5202-001	3	CCR
5216----	3	CCE
5218----	3	IOR
5223-001	3	CCE
5271----	3	IOR
5272-001	3	IOE
5273----	12	CCR
5277-001	3	IOE
5278----	3	IOE
5279-001	3	IOE

Maintenance

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	Warranty Period (Months)	Warranty Service Type
5373-----	3270-PC/AT /G/GX System Unit	12 CCR
5378-----	Display Attachment Unit	3 IOR
5379-----	19in Display	3 IOR
5531-----	Indust PC	3 CCR
5532-----	Indust PC Display	3 CCE
5841-001	IBM Sync/Async Modem	12 CCE
5842-001	IBM Sync/Async Modem	12 CCE
5853-001	IBM Sync/Async Modem	12 COE
6150-----	IBM RT PC	12 IOR
6151-----	IBM RT PC	12 IOR
6152-----	IBM Academic System	12 IOR
6153-001	IBM Advanced Monochr Graphic Display	12 IOE
6154-001	IBM Advanced Color Graphics Display	12 IOE
6155-001	IBM Extended Monochr Graphic Display	12 IOE
6157-001	Streaming Tape Drive	12 CCE
6157-002	Streaming Tape Drive	12 CCE
6156-001	Portable Disk Drive	12 IOR
6156-003	Portable Disk Drive	12 IOR
6180-----	A-Size Plotter, 8-Pen	3 CCE
6182-001	IBM Auto Feed Color Plotter, 8-Pen	12 IOR
6184-001	D-Size Plotter, 8-Pen	3 IOR
6186-----	A/E Size Plotter, 8-Pen	3 IOR
6192-001	Expansion Unit	12 IOR
7371-001	IBM Color Plotter	3 CCR
7372-001	IBM Color Plotter	3 CCR
7374-001	IBM Color Plotter	3 CCR
7375-----	IBM Color Plotter	3 CCR
7531-----	Industrial PC/AT	12 IOR
7532-----	Industrial PC/AT	12 IOR
7534-001	Enh. Indust PC Display	12 CCE
7552-----	Industrial PC/AT	12 IOR
8218-001	Token-Ring Copper Repeater	12 CCE
8219-001	Token-Ring Optic Fiber Repeater	12 CCE
8228-001	Multistation Access Unit	12 CCE
8503-----	Personal System/2 Mono Display	12 CCE
8507-----	Personal System/2 Mono Display	12 CCE
8512-----	Personal System/2 Color Display	12 CCE
8513-----	Personal System/2 Color Display	12 CCE
8514-----	Personal System/2 Color Display	12 CCE
8525-----	Personal System/2 Model 25	12 CCR
8530-----	Personal System/2 Model 30	12 CCR
8550-----	Personal System/2 Model 50	12 CCR
8560-----	Personal System/2 Model 60	12 CCR
8570-----	Personal System/2 Model 70	12 CCR
8580-----	Personal System/2 Model 80	12 CCR
9332-----	SCSI DASD	12 IOR

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Warranty Warranty
 Period Service
 (Months) Type

WARRANTY PERIOD AND TYPE - FEATURES

The warranty period for certain optional features will be extended when these features are installed in a 5155 or 5170-based system (e.g., 5373), which is still under warranty. The warranty period for these features would normally be three months. However, the warranty period will be extended to coincide with the system unit warranty period. Optional features installed after the system unit is installed, with their normal warranty extending beyond that of the system unit, will receive their normal warranty. See the announcements of the 5155 and 5170 for details.

Warranty Warranty
 Period Service
 (Months) Type

CCR = Customer Carry-In Repair
 CCE = Customer Carry-In Exchange
 IOR = IBM On-Site Repair
 IOE = IBM On-Site Exchange
 Mail-in = Customer mails unit in
 System = Same as system unit
 Mfr - Warranty Service direct from Manufacturer

0005	PCjr Diskette Dr	12	CCR
0006	Power Expansion Attach	12	CCR
0007	PCjr 64KB Mem+Disp Exp	12	CCR
0008	PCjr Internal Modem	12	CCR
0009	PCjr Parallel Prt Att	12	CCR
0010	PCjr Attachable Joy Stick	N/A	N/A
0012	PCjr Keyboard Cord	12	CCR
0020	PCjr Connector for TV	12	CCR
0021	PCjr Adapt Cbl Colr Disp	12	CCR
0022	PCjr Adapt Cable Cassette	12	CCR
0024	PCjr Speech Attachment	12	CCR
0026	PCjr Adapt Cable Serial	12	CCR
0027	PCjr Cluster Attachment	12	CCR
0031	128KB Memory Expan Attach	12	CCR
0101	Color Printer Paper Rack	12	CCR
0102	Compact Printer Connector	12	CCR
0202	256KB Memory Module Kit	12	CCR
0203	512KB Memory Expansion Opt.	12	CCR
0205	20MB Fixed Disk AT	12	CCR
0206	High Cap. Diskette Dr. (AT)	12	CCR
0207	Dual Sided Diskette Dr.(AT)	12	CCR
0209	128KB Memory Expansion Opt.	12	CCR
0210	30MB Fixed Disk AT	12	CCR
0211	Math Co-Processor (AT)	12	CCR
0215	Serial/Parallel Adapt.	12	CCR
0216	Display Stand	3	CCR
0217	Serial Adapter Cable	12	CCR
0218	Floor Standing Enclosure	3	CCR
0220	Prototype Adapter	12	CCR
0230	PC Network Base Expander	3	CCE
0231	Short Distance Kit	3	CCE
0232	Medium Distance Kit	3	CCE
0233	Long Distance Kit	3	CCE

As of September 20, 1988

	Warranty Period (Months)	Warranty Service Type
0234	25-Foot Cabling Segment	3 CCE
0235	50-Foot Cabling Segment	3 CCE
0236	100-Foot Cabling Segment	3 CCE
0237	200-Foot Cabling Segment	3 CCE
0238	120V Transformer	12 CCE
0242	Serial Adapter Connector	12 CCR
0300	Slimline Diskette Drive	12 CCR
0349	Internal Modem/A, Personal System/2	12 CCR
0357	3.5in Diskette Dr, AT, XT286, Internal	12 CCR
0359	High Capacity Diskette Dr, XT286	12 CCR
0360	360KB Diskette Dr, XT286	12 CCR
1001	16KB Mem Module Kit	3 CCR
1002	Math Co-Processor	3 CCR
1003	64KB Mem Module Kit	3 CCR
1005	BIOS Update Kit	3 CCR
1011	32KB Memory Card	3 CCR
1012	64KB Memory Card	3 CCR
1013	64/256KB Memory	3 CCR
1028	High Speed Adapter/A	?? system
1029	3117 Adapter/A	?? system
1100	Keyboard, Std. PC and XT	3 CCR
1200	Enhanced Graf Adapter	12 CCR
1201	Enhanced Graf Mem Card	12 CCR
1203	Enhanced Graf Mem Module	12 CCR
1204	BSC Adapter	12 CCR
1205	SDLC Adapter	12 CCR
1206	PC Cluster Adapter	12 CCR
1207	PC Cluster Cable Kit	3 CCE
1209	256KB Mem Expan Option	12 CCR
1220	PC Network Adapter II	?? system
1221	PC Network Baseband Adapter	?? system
1222	PC Network Adapter II/A	?? system
5647	PC Network Adapter II/A-Frequency 2	12 system
5648	PC Network Adapter II/A-Frequency 3	12 system
1223	PC Network Baseband Adapter/A	?? system
1300	Game Control Adapter	3 CCR
1356	Four-Port Buffered RS232C Adap, RT PC	12 IOR
1357	Four-Port Buffered RS422A Adap, RT PC	12 IOR
1400	Prototype Card	3 CCE
1501	Profes'i Graf Ctrl'r	12 CCR
1502	Data Acquis/Control Adapter	12 CCR
1503	Gen'l Purpose Interf Bus	12 CCR
1504	Data Acquisition Distrib Panel	3 CCE
1509	XT/370 Option Kit, 2-card	3 CCR
1511	Cursor (Crosshair Mouse/Puck)	3 IOR
2000	3270 Connection, Coax Adap Pers Sys/2	12 system
2067	Communications Adapter Cable	3 CCE
2074	Asynch Adapter	3 CCR
2075	BSC Adapter	3 CCR
2090	SDLC Adapter	3 CCR
2422	InfoWindow Upgrade Kit	12 ??
2500	Fixed Disk Dr	3 CCR

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		Warranty Period (Months)	Warranty Service Type
2501	Fixed Disk Adapter	3	CCR
2507	3278/79 Emulation Adapter	3	CCR
2879	Enhanced Display Station Emul. Adapter	3	CCR
2887	5520-S/3X Emulation	3	CCR
2891	IBM T-Connector	3	CCE
2892	Twinaxial Cable Assembly	3	CCE
2893	Terminator	3	CCE
2894	Twinaxial Cable Adapter (Termination)	3	CCE
3001	80287 Math Co-Processor Pers Sys/2	12	CCR
3002	80387 Math Co-Processor, 16MHZ	12	CCR
3006	80286 Memory Expansion Option	12	CCR
3009	80386 System Board Mem Expan Kit	12	CCR
3012	80286 Memory Expansion Kit	12	CCR
3019	80386 Memory Expansion Option	12	CCR
3025	3285 Plasma Display Adapter	12	CCR
3033	Dual Async Adapter/A Pers Sys/2	12	CCR
3042	Multi-Protocol Adapter/A Pers Sys/2	12	CCR
3043	Hercules Color Card	24	Mfr
3046	44MB Fixed Disk Drive, Pers Sys/2	12	CCR
3047	AST I/O Plus II Card	24	Mfr
3048	AST I/O Plus II Card	24	Mfr
3049	AST I/O Plus II Card	24	Mfr
3050	AST I/O Plus II Card	24	Mfr
3051	AST Preview! Card	12	Mfr
3051	70MB Fixed Disk Drive, Pers Sys/2	12	CCR
3052	AST RAMvantage! Extended Mem Card	24	Mfr
3053	AST RAMvantage! Extended Mem Card	24	Mfr
3054	AST RAMvantage! Extended Mem Card	24	Mfr
3056	AST RAMvantage! Extended Mem Card	24	Mfr
3057	AST RAMpage! Expand Memory Card	24	Mfr
3057	1.44MB Diskette Drive Pers Sys/2	12	CCR
3058	AST RAMpage! Expand Memory Card	24	Mfr
3059	AST RAMpage! Expand Memory Card	24	Mfr
3060	AST RAMpage! Expand Memory Card	24	Mfr
3061	AST RAMpage! Expand Memory Card	24	Mfr
3062	AST RAMpage! Expand Memory Card	24	Mfr
3063	AST RAMpage! Expand Memory Card	24	Mfr
3064	AST RAMpage! Expand Memory Card	24	Mfr
3064	80386 Memory Expansion Kit	12	CCR
3100	AST I/O Mini Board	24	Mfr
3101	AST I/O Mini Board	24	Mfr
3102	AST I/O Mini Board	24	Mfr
3103	AST I/O Mini Board	24	Mfr
3156	RT PC 4MB Memory Expansion	12	IOR
3177	IBM PC Keylock Feature	12	CCR
3200	S/370 Channel Emulator	12	CCR
3395	IBM .5 to 3MB Memory Expansion, AT	12	CCR
3397	512KB Memory Module Kit	12	CCR
3400	IBM .5 to 6MB Memory Expansion, AT	12	CCR
3402	1MB Memory Module Kit	12	CCR
3426	70MB Fixed Disk Driver, RT PC	12	IOR
3619	Multifunction Memory Exp Adapter	12	??

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		Warranty Period (Months)	Warranty Service Type
3428	PC/AT Fixed Disk-Diskette Adapter	12	IOR
3780	Diskette Adapter	3	CCR
3797	RT PC Token-Ring Adapter	12	IOR
3800	SS Diskette Dr	3	CCR
3810	DS Diskette Dr	3	CCR
3891	XT/370 Option Kit, 3277	3	CCR
3905	2MB Memory Expansion Option	??	system
3910	2MB Memory Expansion Option	??	system
3920	2MB Memory Expansion Option	??	system
3930	4250 Print Adapter	12	system
3907	IEEE-488 Adapter and Cable	3	IOR
4026	Enhanced Convertible Internal Modem	12	CCR
4040	Convertible Speech Adapter	12	CCR
4050	Personal System/2 Display Adapter	12	system
4054	Display Adapter 8514/A	12	system
4081	Display Adapter 8514 Memory Expansion	12	system
4156	6157 Tape Adapter	--	system
4160	6157 Tape Adapter, Pers Sys/2	12	system
4471	5218 Printer Sharing Feature	3	CCE
4548	5364 Driver Card	3	CCE
4704	Modem Cable, RS232, 10-Pin	12	IOR
4710	Lighted PF Keyboard, RT PC	12	IOR
4735	40MB Fixed Disk Drive, RT PC	12	IOR
4739	2MB Memory Expansion, RT PC	12	IOR
4756	PC/AT Coprocessor Card for RT PC	12	IOR
4758	Floating Point Accelerator, RT PC	12	IOR
4762	Multiprotocol Commo Adapter, RT PC	12	IOR
4763	4-Port RS232 Adapter, RT PC	12	IOR
4764	4-Port RS422 Adapter, RT PC	12	IOR
4765	Advanced Mono Graphics Adapter, RT PC	12	IOR
4766	Advanced Color Graphics Adapter, RT PC	12	IOR
4768	Extended Color Graphics Adapter, RT PC	12	IOR
4771	Voice Communications Option, See FC 4839		
4790	Token-Ring Network Adapter/A	??	system
4797	Streaming Tape Drive Adapter, RT PC	12	IOR
4802	ASCII Term Cable, RS422, 6-Pin 20-m	12	IOR
4803	Serial Printer Cable, 10-pin	12	IOR
4805	IBM Async Internal Modem	12	CCR
4829	IBM Async Internal Modem	12	CCR
4839	Voice Communications Adapter	12	CCR
4900	Display/Printer Adapt	3	CCR
4910	Color/Graphics Adap (PC)	3	IOR
4910	All Points Addr Adap(3270-PC)	3	CCR
4920	High Speed Adapter, RS422	12	CCR
4925	3117-PC Adapter	12	CCR
5001	Pers System/2 Math Co-Processor	12	CCR
5002	Pers System/2 Speech Adapter	12	CCR
5003	Pers System/2 Data Migration Facil	3	CCR
5004	Color Display Stand	12	CCE
5030	RS232C Connection for 7271/2	3	CCR
5050	Advanced 3278/79 Emulation Adapter	12	CCR
5063	Token-Ring Adapter II	12	system

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		Warranty Period (Months)	Warranty Service Type
5200	Printer Adapter	3	CCR
5240	InfoWindow Enhanced Graphics Adapter	12	system
5315/6	3278 PC Attach	3	IOR
5317/8	3278 PC Adapter	3	IOR
5325/6	3279 PC Attach	3	IOR
5327/8	3279 PC Adapter	3	IOR
5321	PC 3278 Attach Opt	3	CCR
5322	PC 3279 Attach Opt	3	CCR
5612	Printer Cable	3	CCR
5614	Printer Stand	3	CCR
5730	Keyboard replacement, 3270PC Std.	3	CCR
5731	APL Keyboard, 3270PC	3	CCR
5773	Token-Ring Adapter Trace/Perf Adpt II	12	system
5774	Token-Ring Adapter Trace/Perf Adpt/A	12	system
5790	Programmed Symbols Adapter	3	CCR
6000	Combination Adapter	3	CCR
5001	Combination Adapter Cable	3	CCR
6002	Keylock Option Kit	3	CCR
6010	Enhanced LCD Display, Convertible	12	CCR
6011	Music Feature	12	system
6017/8	Industrial XT Disk/Adapter	3	CCR
6019	Industrial AT Disk	12	IOR
6020	Industrial AT Combo. Adapter II	12	IOR
6023	Indust. AT Rack Mount Slides	3	IOR
6024	Indust. AT KB Mounting Kit	3	IOR
6025	Indust. AT Display Mounting Kit	3	IOR
6026	Shaded Screen Cover	3	CCE
6027	Optically Coated Glass Cover	3	CCE
6030	256KB Memory Card, Convertible	12	CCR
6038	Industrial AT Hi-Cap Diskette	12	IOR
6039	Industrial AT 2-Side Diskette	12	IOR
6040	Industrial AT 128KB Memory	12	IOR
6044	Indust. AT Display Mount Parts Kit	3	IOR
6045	Industrial AT Disk	12	IOR
6049	FCS Input Option	3	CCR
6050	ARTIC, 512K	12	system
6051	ARTIC RS232C/CCITT V.24 Board	12	system
6052	FCS Output Option	3	CCR
6053	ARTIC CCITT V.35	12	system
6054	FCS Security Option	3	CCR
6055	ARTIC 128KB Memory Board	12	system
6061	ARTIC 512KB Memory Board	12	system
6064	ARTIC RS422A Board	12	system
6065	4700 FCS Input Option (PC/AT)	3	CCR
6066	ARTIC 20mA Current Loop Board	12	system
6068	4700 FCS Output Option (PC/AT)	3	CCR
6069	4700 FCS Security Option (PC/AT)	3	CCR
6070	80287 Co-Processor for 7552	12	IOR
6072	Battery, 7552	12	IOR
6073	External Voltage Module, 7552	12	IOR
6074	Memory Adapter, 7552	12	IOR
6075	512KB Memory Expansion, 7552	12	IOR

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	Warranty Period (Months)	Warranty Service Type
6076	Card Shroud, 7552	12 IOR
6077	IBM PC Feature Adapter, 7552	12 IOR
6078	Remote Terminal Interface, 7552	12 IOR
6080	Disk/Diskette Adapter, 7552	12 IOR
6081	Diskette Drive, 7552	12 IOR
6082	10MB Fixed Disk Drive, 7552	12 IOR
6094	Prototype Card, 7552	12 IOR
6095	Memory Adapter and Card Shroud, 7552	12 IOR
6096	Filters, 7552	12 IOR
6097	Keyboard Rack Mount Hardware, 7552	12 IOR
6098	Floor Mount Kit, 7552	12 IOR
6115	AT/370 Option Kit	12 CCR
6160	ARTIC, 512K	12 system
6163	3.5in Diskette Dr, Industrial PC/AT	12 IOR
6165	ARTIC, 128K	12 system
6166	ARTIC, 128K	12 system
6240	ARTIC, 128K, 4-port	?? system
6241	ARTIC, 128K, 4-port	?? system
6242	ARTIC 512KB expansion	?? system
6245	ARTIC 4-Port Expansion	?? system
6250	20MB Fixed Disk, Industrial PC/AT	12 IOR
6263	ARTIC/2, 512K	12 system
6265	ARTIC/2, 8-port RS-232 Interface	12 system
6266	ARTIC/2, RS-232/RS-422 Interface	12 system
6267	ARTIC/2, 4-port RS-232 Interface	12 system
6279	S/36/38 Workstation Em Adapter/A	12 system
6341	RT PC ESDI Magnetic Media Adapter	12 IOR
6351	Stylus	3 IOR
6501-8	CMIS Kit 1-8	60 CCE
6509	Copier Control Device	60 CCE
6510	CMIS System Kit	60 CCE
6512	CCD-to-Wall Cable, User's Manual	60 CCE
6513	PC-to-Wall Cable	60 CCE
6514	CCD-to-Modem Cable	60 CCE
6515	Signal Adapters for Kit 1	60 CCE
6516	Signal Adapters for Kits 2-5	60 CCE
6583	EGA Jumper Card	12 CCR
6714	Tallgrass Tape Backup	6 Mfr
6727	Irwin Model 145 Tape Backup	12 Mfr
6801	Copier II CCD	60 CCE
6802	Model 10 CCD	60 CCE
6803	Model 20 CCD	60 CCE
6805	Model 30 CCD	60 CCE
6806	Model 40 CCD	60 CCE
6808	Model 60 CCD	60 CCE
6810	RT PC Baseband Adapter for Ethernet	12 IOR
6815	Floating Point Accelerator, RT PC	12 IOR
6941	RT PC 70MB ESDI Fixed-Disk Drive	12 IOR
7000	RT PC SCSI Adapter	12 IOR
7001	PC/AT /G Upgrade Kit	12 CCR
7002	PC/AT /GX Upgrade Kit	12 CCR
7002	Pageprinter Adapter/A	12 CCR

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		Warranty Period (Months)	Warranty Service Type
7011	PC/AT /G Upgrade Kit	12	CCR
7012	PC/AT /GX Upgrade Kit	12	CCR
7561	5080 Peripheral Adapter, RT PC	12	IOR
7564	5080 Peripheral Cable Kit	12	IOR
7586	5083 Tablet Cable Kit	12	IOR
7619	AST FourPort/XN Commo Board	24	Mfr
7641	ASCII Term Cable, 6-Pin 3-m RS422	12	IOR
7675	Stand with Tilt, Swivel, Height Adj.	3	IOE
7676	Stand with Tilt, Swivel Adj.	3	IOE
7833	2MB Memory Module Kit	12	CCR
7850	Tractor Feed for 5218	3	IOR
7860	5080 Attachment Adapter, RT PC	12	IOR
7870	Sheet Feed for 5218	3	IOR
7875	Sheet Feed for 5218 with Envelope Feed	3	IOR
7893	RT PC S/370 Host Interface Adapter	12	IOR
8001	Multiprotocol Commo Adapt	12	CCR
9186	ASCII Terminal Cable, RS232 10-Pin	12	IOR
8214	Quietwriter III Pinwheel Form Feed	3	CCR
8222	1MB System Memory Expansion, RT PC	12	IOR
8245	ASCII Terminal Cable, RS232 9-Pin	12	IOR
8314	4683-002 Attachment Adapter	12	CCR
8362	Quietwriter III Sheetfeed Adapter Kit	3	CCR
8426	Mouse, RT PC	12	IOR
8459	Font Download Cartridge	3	CCR
8541	Fixed Disk Attach Cable	12	IOR
8635	IBM Enhanced Memory Expansion, AT	12	CCR
8659	Font Download Cartridge	3	CCR
8700	Optical Disk Drive	12	CCR
8710	Dials, RT PC	12	IOR
8720	80387 Math Co-Proc, 20MHz	12	CCR
8722	80386 2MB Sys Board Mem Expan Kit	12	CCR
8730	115MB Fixed Disk, Pers Sys/2	12	CCR
8750	Adapter for 5.25in External Drive	12	CCE
8760	Adapter for 5.25in External Drive	12	CCE
8770	Mouse, Personal System/2	12	CCR
8881	Remote Pgm Load, TR Adapter/A	??	system
8982	Personal Telephone Mgr Adapter	12	system
8993	Serial Printer Cable, 9-Pin	12	IOR
9100	Token-Ring Network PC Adapter	12	system
9538	Quietwriter III Dual Drawer Sheetfeed	3	CCR
9620	Quietwriter III Envelope Feed	3	CCR
1348330	3812 Developer Unit	3	IOR
1348331	3812 Fuser Unit	3	IOR
1348335	3812 Cassette - Primary	3	IOR
1348336	3812 Cassette - Secondary	3	IOR
1348347	3812 Photoconductor Unit	1	IOR
1348349	3812 Toner Cartridge	12	IOR
6113477	8100 PC Adapter - RLOOP Kit	3	mail-in
MES8566	Electronic 65/85 PC Att - Typewriter pt 3		IOR

STATEMENTS OF DIRECTION

Announcement and availability of these products will be based on IBM's technical and business judgement.

IMAGEPLUS WORKSTATION SUPPORT

Letter 188-108; June 28, 1988

IBM intends to provide image workstation components to complement the IBM ImagePlus systems. These image workstation components will include a high-resolution, large-screen, monochrome landscape monitor, a high-resolution, large-screen, monochrome portrait monitor, and an adapter that attaches either of these monitors to any IBM Personal System/2 model that implements the MicroChannel architecture. In addition, IBM intends to provide an image workstation application licensed program for the IBM Personal System/2. The image workstation application program is a PC DOS-based program that will be designed to interact with host IBM ImagePlus systems.

Information regarding availability of these products will be provided in the first quarter of 1989.

IBM NETVIEW/PC FOR PERSONAL SYSTEM/2

Letter 287-285; June 16, 1987

NetView/PC V.1.1 intends to support the IBM Personal System/2 Models 50, 60, and 80.

(Fulfilled in Letter 287-458; October 20, 1987)

IBM FINANCE SYSTEMS STATEMENT OF DIRECTION

Letter 187-114; May 29, 1987

Today, the IBM 4702 Branch Processor provides network management, program library maintenance and distribution, security,

high reliability, and branch processor-based application support to meet finance system requirements. IBM plans to attach the 4702 Branch Processor to the IBM Local Area Network using Token-Ring protocol, providing a high degree of resource sharing in the branch. The 4702 Branch Processor will be enhanced in function and performance to facilitate its use with IBM Personal Computers in a LAN environment for communications, file, and printer support. Current functions of 4700 Personal Computer Application Services that are available only via 4700 cluster-attached IBM Personal Computers will be enhanced and provided on 4702 LAN-attached IBM Personal Computers.

IBM also intends to offer an all IBM Personal Computer LAN system for finance environments. Gateway and finance server support on IBM Personal Computers will be provided. This LAN-based system is intended for those environments where host-controlled distributed data processing, as provided by the 4700 System, is currently not a major consideration.

Finally, IBM intends to provide retail banking software products for the intelligent finance workstation consistent with the IBM systems application architecture thereby providing the capability to protect application investments. IBM will focus on offering system software to enhance Personal Computer application development and providing Personal Computer applications for the teller and administrative functions. The use of 4700-based applications continues to be an excellent solution where applications can be used from dependent terminals and IBM Personal Computers emulating dependent terminals or used as intelligent workstations. Resource Manager 4700 will continue to provide the application development facilities and system services for 4700-based applications.

In summary, IBM will continue to enhance its finance system offerings by extending the capabilities of the 4702, more completely integrating the IBM Personal Computer as an intelligent workstation and providing programming interfaces that allow Personal Computer-based applications to be used in a variety of system environments.

The results of this direction are that customers can continue to implement finance systems solutions with the 4700, Personal

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Computer- and Personal System/2-based workstations and combinations of these two approaches based on their specific application environment.

ECF REQUESTERS ON IBM OPERATING SYSTEM/2 EXTENDED EDITION

Letter 287-095; April 2, 1987

IBM plans to provide, subject to normal technical and business considerations, host connectivity support for IBM Operating System/2 Extended Edition. These PC resource extensions and host data access functions will be contained in the Enhanced Connectivity Facilities (ECF) products, which contain ECF requesters.

Availability of this function will be announced at a later date.

IBM OPERATING SYSTEM/2 ENHANCEMENTS

Letters 287-099, 287-095; April 2, 1987

To assist customers in their planning, IBM plans to provide the following enhancements to IBM Operating System/2 Standard Edition:

- Enhanced support for fixed disks to support partitions greater than 32MB
- Application development facilities for the Dialog Manager Interface.

IBM plans to provide the following enhancements to IBM Operating System/2 Extended Edition:

- Enhanced support for fixed disks to support partitions greater than 32MB (also listed above under IBM Operating System/2 Standard Edition enhancement)
- Application development facilities for the Dialog Manager Interface (also listed above under IBM Operating System/2 Standard Edition enhancement)
- Communications Manager
 - SNA Local Area Network gateway support
 - Additional support for Enhanced Connectivity Facilities
 - IBM 5250 Workstation Feature
 - X.25
 - IBM 3270 programming interface with the same functions as the Entry Emulator High-Level Language Application Program Interface (EEHLLAPI) of the IBM PC 3270 Emulation Program, Entry Level 1.1 and 1.2
- Data Base Manager
 - Remote data services (Local Area Network support)
 - ▲ Data base support for an IBM PC or an IBM Personal

System/2 on an IBM Token-Ring or an IBM PC Network

- △ Multiple workstation access to a common data base
- △ Single workstation access to a data base located elsewhere on a Local Area Network
- IBM COBOL/2 and IBM Pascal Compiler/2 precompiler support for SQL statements imbedded in applications programs written in IBM COBOL/2 and IBM Pascal Compiler/2
- Import utility support for nondelimited ASCII files to assist in importing data from other applications.

Availability information for planned enhancements will be provided at a later date.

IBM PERSONAL SYSTEM/2 ADVANCED INTERACTIVE EXECUTIVE (AIX)

Letter 287-122; April 2, 1987

IBM will provide an IBM Personal System/2 Advanced Interactive Executive (AIX) Operating System and AIX languages VS Pascal, VS FORTRAN, and C for the IBM Personal System/2 Model 80. The IBM Personal System/2 AIX Operating System will be a subset of the multiuser, multitasking, virtual memory AIX operating system currently available on the IBM RT PC. PC DOS 3.3 will be supported as a task under the IBM Personal System/2 AIX Operating System. The IBM Personal System/2 AIX languages will be source code compatible with RT PC VS Pascal, RT PC VS FORTRAN, and C languages. This offering complements the current AIX offering on the RT PC by extending the AIX family.

Information regarding the price, scheduled availability, and applicable terms and conditions will be provided fourth quarter 1987.

OS/2 VERSION OF INTERNAL TAPE BACKUP PROGRAM

Letter 288-477; September 13, 1988

It is IBM's intention to support the OS/2 operating system by providing an OS/2 version of the PS/2 Internal Tape Backup Program. This intended announcement will be based on IBM's technical and business judgement. Further details will be published in the second quarter of 1989.

It is IBM's current intention for the PS/2 Internal Tape Backup Program and PS/2 Internal Tape Backup Unit to operate with extended length mini-tape cartridges when they become generally available in the marketplace. An American National Standard Institute (ANSI) standard for extended length cartridges is expected to be established in the future.

The use of extended length mini-tape cartridges with the PS/2 Internal Tape Backup Program and the PS/2 Internal Tape Backup

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Unit will allow users to store and retrieve up to 120Mb of data on one minicartridge. IBM's future decision whether to support extended length tape cartridges will be based on IBM's technical evaluation of the ANSI standard as it is established.

4680 ENHANCEMENT

Letter 187-096; April 2, 1987

IBM intends to utilize the architecture and technology of the new IBM Personal Computers, being announced today (i.e. 8530, 8550, 8560, 8580), in future 4860 Store System Controllers.

SRPI OVER LOGICAL UNIT 6.2

Letter 186-125; June 16, 1986

It is IBM's intent to provide to those programs using the SRPI (Server Requester Program Interface) the capability of also communicating over logical unit 6.2 in selected environments.

The communications capability offered through the SRPI provides a subset of IBM's advanced program-to-program communications (APPC) architecture. Those customers who require communications capabilities beyond those provided by the SRPI should consider the advanced functions of APPC in IBM licensed programs.

SERIES/1 PC CONNECT UNDER EDX

Letter 185-024; March 6, 1985

(Fulfilled in Letter 285-364; October 1, 1985)

IBM is providing support for the Series/1 PC Connect under Realtime Programming System Version 7.1. IBM intends to provide the function announced today under Event Driven Executive using the Communication Facility, in a future enhancement.

OFFICE SYSTEMS CONNECTIVITY

Letter 284-402; October 25, 1984

IBM intends to extend Personal Services/PC DIA support to provide Personal Computer users with access to:

- DISOSS/370 library services (Fulfilled in Letter 286-166; April 16, 1986)
- DISOSS/370 library and distribution services when attached

to the IBM PC Network and other IBM networks supporting the NETBIOS interface (Fulfilled in Letter 286-132; April 2, 1986)

- Library and distribution services on the System/36 and System/38 (Fulfilled for the System/36 in Letter 287-282; June 16, 1987).

DFT SUPPORT FOR 4361

Letter 184-103; September 10, 1984

(Fulfilled in Letter 185-058; June 18, 1985)

IBM intends to provide DFT (Distributed Function Terminal) mode capability for the WSA (Workstation Adapter) on the IBM 4361 Processor Model Groups 3, 4, and 5.

The DFT mode enhances the capability of the WSA as follows:

- up to four concurrent host sessions, eight colors, extended highlighting and programmed symbols on the IBM 3270 Personal Computer (PC),
- attachment of the 3270 Personal Computer/Graphics (PC/G) and 3270 Personal Computer/Extended Graphics (PC/GX) with their full set of graphics functions.

TOPVIEW FOR PC NETWORK

Letter 284-282; August 14, 1984

(Fulfilled in Letter 286-137; April 2, 1986)

It is IBM's intention to have TopView capabilities available for the IBM PC Network in the future.

PC NETWORK FUNCTIONS FOR 3270-PC

Letter 284-285; August 14, 1984

(Fulfilled in Letter 186-173; September 18, 1986)

IBM intends to provide the IBM PC Network program server functions for IBM 3270 Personal Computers which are attached to selected models of the same IBM 3270 display controller. The IBM Cabling System can be used to connect the IBM 3270 Personal Computers to the display controller in these environments. The IBM 3270 Personal Computers also continue to have access to System/370 based applications via existing interfaces as they do today.

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NETBIOS SUPPORT FOR OTHER NETWORKS

Letter 284-293 and 284-292; August 14, 1984

IBM intends to provide support of the IBM PC Network Program and the network basic input/output system (NETBIOS) interface for IBM Personal Computers in the following environments:

- IBM Cabling System using the token-ring protocol (Fulfilled in Letters 185-123 and 285-398; October 15, 1985).
- IBM 3270 Personal Computers attached to selected models of the same IBM 3270 Display Controller
(Fulfilled in Letter 186-173; September 18, 1986).
- IBM Industrial local-area network using the token-bus protocol.

3270 DATA STREAM SUPPORT FOR TOKEN-RING NETWORK

Letter 284-294 and 284-292; August 14, 1984

(Fulfilled in Letter 185-123; October 15, 1985).

IBM intends to provide IBM 3270 interactive data stream compatibility for access to System/370-based applications for IBM Personal Computers, using the token-ring protocol on the IBM Cabling System.

INTERCONNECTION OF TOKEN, PC, AND INDUSTRIAL NETWORKS

Letter 284-292; August 14, 1984

IBM intends to provide interconnection between a Token-Ring local area network using the IBM Cabling System and the IBM PC Network, (Fulfilled in Letters 185-123 and 285-400; October 15, 1985), as well as between a token-ring local area network using the IBM Cabling System and an IBM Industrial local area network.

GRAPHICAL KERNEL SYSTEM SUPPORT

Letter 284-245; June 25, 1984

(Fulfilled for the PC in Letter 284-346; October 9, 1984)

Graphical Kernel System (GKS), a Draft International Standard (ISO/DIS 7942) of the International Organization for Standardization (ISO), is a basic graphics system supporting the definition and representation of two-dimensional pictures on a wide variety of graphics devices. IBM recognizes the importance of this Draft International Standard and intends to provide GKS capability in selected graphic software, including the IBM

Graphical Data Display Manager (GDDM).

ALPHANUMERIC PROGRAMMING INTERFACE FOR 3270-PC/G AND GX

Letter 184-079; June 25, 1984

(Fulfilled in Letter 285-285; August 6, 1985)

As stated in the 3270-PC announcement of October 1983, it is IBM's intent to provide an alphanumeric programming interface on the 3270-PC. It is the intent to offer a similar interface on the 3270-PC/G and 3270-PC/GX.

INTELLIGENT WORKSTATION SUPPORT FOR APPLICATION SYSTEM

Letter 284-192; May 15, 1984

Application System (AS) is a decision support and departmental computing tool with comprehensive function to support the work of business professionals, managers, administrators, secretaries, and application programmers. Increasingly, the data these users need is relational in nature (for example, that provided by IBM SQL/DS and DB2), the workstations they may use have local intelligence (for example, the IBM 3270-Personal Computer, the IBM Personal Computer, and the IBM Personal Computer XT); and the host operating system they access (for example, Multiple Virtual Storage (MVS)) requires the support of such tools as AS. The direction of future development of the AS product line is to provide the user with function, access to data, support for workstations, and the modes of delivery consistent with these needs.

Further information covering this direction statement will be made available fourth quarter 1984.

LOCAL AREA NETWORK ON CABLING SYSTEM

Letter 184-068; May 8, 1984

(Fulfilled in Letter 185-123; October 15, 1985)

IBM has announced the IBM Cabling System, a common cabling system that can be used as an alternative to coaxial, twinaxial, twisted pair, and other special purpose cabling.

IBM intends to implement a star-wired, token-ring local area network using the IBM Cabling System within the next two to three years.

This token-ring local area network is consistent with IBM's contributions to the local area network standards committees of the Institute of Electrical and Electronics Engineers (IEEE)

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and the European Computer Manufacturers Association (ECMA).

DISOSS SUPPORT FOR PC AND 3270-PC

Letter 284-138; April 3, 1984

(Fulfilled in Letter 284-419; October 25, 1984)

For planning purposes, IBM provides the following statements of direction regarding office systems.

In addition to the document content architecture (DCA) support announced today, it is IBM's intent to enhance these office functions on the IBM Personal Computer and the IBM 3270 Personal Computer by supporting, via document interchange architecture (DIA), connection to DISOSS/370.

3273 EMULATION SUPPORT FOR PC/XT/370

Letter 183-141 and 183-139; October 18, 1983

(Fulfilled in Letter 184-141; October 25, 1984)

IBM intends to make a Product Announcement to the IBM Personal Computer XT/370 to address the following: A card, similar to the PC/3277EM card, which will allow the IBM Personal Computer

XT/370 to attach via coaxial cable to type A adapters on an IBM 3274 Control Unit that support the IBM 3278/79 Display Stations.

ADDITIONAL FUNCTION FOR THE 3270-PC

Letter 183-129; October 18, 1983

(Graphics direction fulfilled in Letter 184-021; February 21, 1984)

(API direction fulfilled in Letter 284-286; August 14, 1984)

Statement of direction for the 3270-PC: IBM intends to provide additional capabilities for the 3270 Personal Computer in the areas of graphics and programmable interface. Announcement of these capabilities will be based on IBM's technical and business judgment. The following brief descriptions provide the IBM Statement of Direction for the 3270 Personal Computer.

- Graphics -- provide eight-color IBM Personal Computer CGA (color/graphics adapter), graphics, and host graphics.
- Programmable interface -- a programmable interface to the 3270-PC Control Program will be defined to allow program developers to create customized applications for the 3270-PC, including applications to interrelate host and IBM Personal Computer data and programs.

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Cross References

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3005 - 5734-PL3	3034 - 1598-S05	3101 - 1598-S12	3256 - 5873-AAA
3005 - 5748-XXB	3035 - 1598-S05	3102 - 1598-S12	3257 - 5871-AAA
3006 - 5668-903	3035 - 5799-BTB	3102 - 5150-ZZZ	3258 - 5150-ZZZ
3006 - 5734-LM5	3037 - 5798-BDW	3103 - 1598-S12	3264 - 5871-BBB
3006 - 5740-CB1	3038 - 1598-S05	3108 - 5150-ZZZ	3265 - 5876-BBB
3006 - 5748-F03	3039 - 1598-S05	3109 - 5150-ZZZ	3266 - 5872-BBB
3006 - 8550-ZZZ	3040 - 3812-001	3110 - 5150-ZZZ	3266 - 5874-AAA
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3007 - 5668-960	3041 - 6152-ZZZ	3112 - 5373-ZZZ	3268 - 5874-BBB
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3008 - 5150-ZZZ	3044 - 5798-PXJ	3130 - 3812-001	3271 - 5871-AAA
3008 - 5668-011	3045 - 3820-001	3135 - 3812-001	3272 - 5871-AAA
3008 - 5740-CB1	3045 - 5798-PXJ	3140 - 3812-001	3272 - 6150-ZZZ
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3009 - 5668-012	3047 - 1598-S10	3156 - 6150-ZZZ	3282 - 5871-BBB
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3009 - 8550-ZZZ	3049 - 1598-S10	3165 - 6150-ZZZ	3288 - 5872-BBB
3010 - 3820-001	3050 - 1598-S10	3169 - 6150-ZZZ	3295 - 5272-BBB
3010 - 5668-903	3050 - 3812-001	3171 - 6150-ZZZ	3320 - 4683-00?
3010 - 5748-MS1	3050 - 3820-001	3177 - 5150-ZZZ	3322 - 4683-00?
3011 - 5668-899	3051 - 1598-S09	3200 - 5150-ZZZ	3323 - 4683-00?
3011 - 5668-962	3051 - 6152-ZZZ	3200 - 8530-ZZZ	3325 - 4683-00?
3011 - 5740-M52	3051 - 8550-ZZZ	3201 - 8530-ZZZ	3325 - 5150-ZZZ

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3326 - 4683-00?	4000 - 5150-ZZZ	4050 - 5083-???	4096 - 5669-032
3326 - 5150-ZZZ	4000 - 5601-060	4050 - 8530-ZZZ	4096 - 5875-XXX
3327 - 5150-ZZZ	4001 - 4683-00?	4051 - 5870-LLA	4097 - 5875-XXX
3330 - 4683-00?	4001 - 495?-???	4051 - 5871-AAA	4098 - 5875-XXX
3336 - 5150-ZZZ	4001 - 8530-ZZZ	4052 - 5870-LLA	4099 - 5875-XXX
3337 - 5150-ZZZ	4002 - 4683-00?	4052 - 5871-AAA	4101 - 4860-ZZZ
3338 - 5150-ZZZ	4002 - 8530-ZZZ	4053 - 5870-LLA	4103 - 8530-ZZZ
3339 - 4683-00?	4003 - 4683-00?	4053 - 5871-AAA	4104 - 5870-LLA
3339 - 5150-ZZZ	4005 - 5140-ZZZ	4054 - 8550-ZZZ	4104 - 5871-AAA
3340 - 4683-00?	4010 - 4683-00?	4055 - 5140-ZZZ	4105 - 8530-ZZZ
3342 - 4683-00?	4010 - 5083-???	4060 - 5140-ZZZ	4106 - 8530-ZZZ
3343 - 4683-00?	4010 - 5140-ZZZ	4063 - 5870-LLA	4107 - 8530-ZZZ
3343 - 5150-ZZZ	4012 - 4683-00?	4063 - 5871-AAA	4109 - 5875-XXX
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3345 - 4683-00?	4013 - 5871-AAA	4065 - 5871-AAA	4112 - 5875-XXX
3357 - 4683-00?	4014 - 4683-00?	4065 - 5875-MMA	4113 - 5870-LLA
3358 - 4683-00?	4015 - 5140-ZZZ	4066 - 5875-XXX	4113 - 5871-AAA
3360 - 4683-00?	4016 - 4683-00?	4067 - 5870-LLA	4115 - 8530-ZZZ
3361 - 4683-00?	4020 - 4683-00?	4067 - 5871-AAA	4116 - 4860-ZZZ
3364 - 4683-00?	4020 - 5083-???	4069 - 5870-LLA	4117 - 5870-LLA
3365 - 4683-00?	4020 - 5140-ZZZ	4069 - 5871-AAA	4117 - 5871-AAA
3370 - 5273-ZZZ	4022 - 4683-00?	4071 - 5870-LLA	4118 - 5870-LLA
3380 - 4683-00?	4023 - 5875-XXX	4071 - 5871-AAA	4118 - 5871-AAA
3384 - 4683-00?	4024 - 4683-00?	4072 - 5875-XXX	4120 - 5870-LLA
3385 - 4683-00?	4024 - 5875-XXX	4075 - 5140-ZZZ	4120 - 5871-AAA
3390 - 5150-ZZZ	4025 - 5083-???	4075 - 5870-LLA	4121 - 5727-WS6
3390 - 6150-ZZZ	4025 - 5140-ZZZ	4075 - 5871-AAA	4121 - 5870-LLA
3391 - 5150-ZZZ	4025 - 5669-024	4076 - 5140-ZZZ	4121 - 5871-AAA
3397 - 5150-ZZZ	4025 - 5875-XXX	4076 - 5871-AAA	4122 - 5727-LC6
3397 - 8550-ZZZ	4026 - 4683-00?	4076 - 5875-MMA	4122 - 5870-LLA
3404 - 5150-ZZZ	4026 - 5140-ZZZ	4078 - 5875-DDD	4122 - 5871-AAA
3406 - 5150-ZZZ	4026 - 5669-031	4079 - 5875-DDD	4123 - 5870-LLA
3408 - 5150-ZZZ	4026 - 5871-AAA	4080 - 5140-ZZZ	4123 - 5871-AAA
3428 - 6150-ZZZ	4026 - 5875-MMA	4080 - 5150-ZZZ	4124 - 5870-LLA
3466 - 4683-00?	4027 - 5871-AAA	4081 - 5870-LLA	4124 - 5871-AAA
3468 - 6150-ZZZ	4027 - 5875-MMA	4081 - 5871-AAA	4129 - 5870-LLA
3470 - 6150-ZZZ	4028 - 4683-00?	4081 - 8550-ZZZ	4129 - 5871-AAA
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3520 - 5271-ZZZ	4028 - 5871-AAA	4083 - 5870-LLA	4136 - 5871-AAA
3530 - 5271-ZZZ	4028 - 5875-MMA	4083 - 5871-AAA	4137 - 5870-LLA
3540 - 6150-ZZZ	4029 - 5871-AAA	4084 - 5870-LLA	4137 - 5871-AAA
3544 - 5150-ZZZ	4029 - 5875-MMA	4084 - 5871-AAA	4139 - 5870-LLA
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3653 - 5871-AAA	4030 - 5875-MMA	4086 - 5870-LLA	4156 - 5150-ZZZ
3653 - 5875-MMM	4032 - 4683-00?	4086 - 5871-AAA	4157 - 5871-AAA
3678 - 6150-ZZZ	4032 - 5798-FAL	4088 - 5140-ZZZ	4157 - 5875-MMA
3797 - 6150-ZZZ	4034 - 4683-00?	4090 - 5140-ZZZ	4160 - 8550-ZZZ
3905 - 8530-ZZZ	4034 - 5798-FAL	4091 - 5669-031	4165 - 5871-AAA
3907 - 5371-ZZZ	4035 - 5871-AAA	4092 - 5669-031	4165 - 5875-MMA
3910 - 5271-ZZZ	4035 - 5875-MMA	4094 - 5669-032	4167 - 5875-DDD
3913 - 6150-ZZZ	4040 - 4683-00?	4094 - 5875-XXX	4172 - 5870-LLA
3988 - 6150-ZZZ	4040 - 5140-ZZZ	4095 - 5140-ZZZ	4172 - 5871-AAA
4000 - 4683-00?	4048 - 5871-AAA	4095 - 5669-032	4174 - 5150-ZZZ
4000 - 495?-???	4048 - 5875-MMA	4095 - 5875-XXX	4175 - 5871-AAA

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4175 - 5875-MMA	4330 - 5871-AAA	4365 - 5871-AAA	4397 - 5871-AAA
4176 - 5150-ZZZ	4330 - 5875-MMA	4365 - 5875-MMA	4397 - 5875-MMA
4187 - 5871-AAA	4333 - 5870-LLA	4366 - 5871-AAA	4400 - 5727-WS1
4187 - 5875-MMA	4333 - 5871-AAA	4366 - 5875-MMA	4401 - 5727-WS1
4190 - 5871-AAA	4334 - 5870-LLA	4368 - 5871-AAA	4401 - 5871-BBB
4190 - 5875-MMA	4334 - 5871-AAA	4368 - 5875-MMA	4402 - 5870-LLA
4192 - 4683-00?	4336 - 5871-AAA	4369 - 5871-AAA	4402 - 5871-AAA
4197 - 5871-AAA	4336 - 5875-MMA	4369 - 5875-MMA	4403 - 5727-LC1
4197 - 5875-MMA	4337 - 5871-AAA	4370 - 5871-AAA	4403 - 5870-LLA
4201 - 5870-LLA	4337 - 5875-MMA	4370 - 5875-MMA	4403 - 5871-AAA
4201 - 5871-AAA	4338 - 5871-AAA	4371 - 5871-AAA	4404 - 5727-LC1
4202 - 5871-AAA	4338 - 5875-MMA	4371 - 5875-MMA	4404 - 5870-LLA
4202 - 5875-MMA	4339 - 5870-LLA	4372 - 5871-AAA	4404 - 5871-AAA
4210 - 5871-AAA	4339 - 5871-AAA	4372 - 5875-MMA	4405 - 5870-LLA
4210 - 5875-MMA	4340 - 5871-AAA	4374 - 5871-AAA	4405 - 5871-AAA
4239 - 8550-ZZZ	4340 - 5871-COM	4374 - 5875-MMA	4406 - 5871-AAA
4293 - 5870-LLA	4343 - 5870-LLA	4375 - 5871-AAA	4406 - 5875-MMA
4293 - 5871-AAA	4343 - 5871-AAA	4375 - 5875-MMA	4407 - 5870-LLA
4294 - 5870-LLA	4344 - 5870-LLA	4376 - 5871-AAA	4407 - 5871-AAA
4294 - 5871-AAA	4344 - 5871-AAA	4376 - 5875-MMA	4408 - 5870-LLA
4297 - 5870-LLA	4345 - 5870-LLA	4377 - 5871-AAA	4408 - 5871-AAA
4297 - 5871-AAA	4345 - 5871-AAA	4377 - 5875-MMA	4409 - 5870-LLA
4304 - 5870-LLA	4346 - 5870-LLA	4378 - 5871-AAA	4409 - 5871-AAA
4304 - 5871-AAA	4346 - 5871-AAA	4378 - 5875-MMA	4410 - 5798-DWG
4305 - 5870-LLA	4347 - 5870-LLA	4379 - 5871-AAA	4410 - 5870-LLA
4305 - 5871-AAA	4347 - 5871-AAA	4379 - 5875-MMA	4410 - 5871-AAA
4306 - 5871-AAA	4348 - 5870-LLA	4380 - 5871-AAA	4411 - 5798-DWG
4306 - 5875-MMA	4348 - 5871-AAA	4380 - 5875-MMA	4411 - 5870-LLA
4307 - 5870-LLA	4349 - 5870-LLA	4381 - 5871-AAA	4411 - 5871-AAA
4307 - 5871-AAA	4349 - 5871-AAA	4381 - 5875-MMA	4412 - 5870-LLA
4308 - 5870-LLA	4350 - 5870-LLA	4382 - 5871-AAA	4412 - 5871-AAA
4308 - 5871-AAA	4350 - 5871-AAA	4382 - 5875-MMA	4413 - 5870-LLA
4316 - 5870-LLA	4351 - 5870-LLA	4384 - 5871-AAA	4413 - 5871-AAA
4316 - 5871-AAA	4351 - 5871-AAA	4384 - 5875-MMA	4414 - 5870-LLA
4317 - 5870-LLA	4352 - 5870-LLA	4386 - 5871-AAA	4414 - 5871-AAA
4317 - 5871-AAA	4352 - 5871-AAA	4386 - 5875-MMA	4415 - 5870-LLA
4318 - 5870-LLA	4353 - 5870-LLA	4387 - 5871-AAA	4415 - 5871-AAA
4318 - 5871-AAA	4353 - 5871-AAA	4387 - 5875-MMA	4416 - 5870-LLA
4319 - 5870-LLA	4354 - 5870-LLA	4388 - 5871-AAA	4416 - 5871-AAA
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4320 - 5871-AAA	4355 - 5875-MMA	4389 - 5875-MMA	4419 - 5871-AAA
4321 - 5870-LLA	4356 - 5871-AAA	4390 - 5871-AAA	4419 - 5875-MMA
4321 - 5871-AAA	4356 - 5875-MMA	4390 - 5875-MMA	4421 - 5871-AAA
4322 - 5870-LLA	4357 - 5871-AAA	4391 - 5871-AAA	4421 - 5875-MMA
4322 - 5871-AAA	4357 - 5875-MMA	4391 - 5875-MMA	4422 - 5871-AAA
4323 - 5870-LLA	4358 - 5871-AAA	4392 - 5871-AAA	4422 - 5875-MMA
4323 - 5871-AAA	4358 - 5875-MMA	4392 - 5875-MMA	4427 - 5871-AAA
4324 - 5870-LLA	4359 - 5871-AAA	4393 - 5871-AAA	4427 - 5875-MMA
4324 - 5871-AAA	4359 - 5875-MMA	4393 - 5875-MMA	4429 - 5871-AAA
4325 - 5870-LLA	4360 - 5871-AAA	4394 - 5871-AAA	4429 - 5875-MMA
4325 - 5871-AAA	4360 - 5875-MMA	4394 - 5875-MMA	4430 - 5601-204
4326 - 5870-LLA	4363 - 5871-AAA	4395 - 5871-AAA	4431 - 5870-LLA
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4327 - 5870-LLA	4364 - 5871-AAA	4396 - 5871-AAA	4432 - 5870-LLA
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4437 - 5871-AAA	4474 - 5870-LLA	4539 - 5871-AAA	4566 - 5871-COM
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4438 - 5871-AAA	4500 - 4683-00?	4540 - 5871-AAA	4567 - 5871-COM
4438 - 5875-MMA	4502 - 5871-BBB	4540 - 5871-COM	4568 - 5871-AAA
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4439 - 5875-MMA	4504 - 5871-BBB	4541 - 5871-COM	4569 - 5871-AAA
4440 - 5871-AAA	4504 - 5875-MMM	4542 - 5871-AAA	4569 - 5871-COM
4440 - 5875-MMA	4505 - 5871-BBB	4542 - 5871-COM	4570 - 5871-AAA
4441 - 5871-AAA	4505 - 5875-MMM	4543 - 5871-AAA	4570 - 5871-COM
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4442 - 5871-AAA	4507 - 5871-AAA	4544 - 5601-101	4571 - 5871-COM
4442 - 5875-MMA	4508 - 5871-AAA	4544 - 5871-AAA	4572 - 5871-AAA
4443 - 5871-AAA	4509 - 5871-AAA	4544 - 5871-COM	4572 - 5871-COM
4443 - 5875-MMA	4510 - 5871-AAA	4545 - 5871-AAA	4573 - 5871-AAA
4444 - 5871-AAA	4511 - 5871-AAA	4545 - 5871-COM	4573 - 5871-COM
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4445 - 5875-MMA	4513 - 5871-COM	4547 - 5664-298	4575 - 5871-AAA
4446 - 5871-AAA	4514 - 5601-062	4547 - 5871-AAA	4575 - 5871-COM
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4447 - 5871-COM	4515 - 5871-AAA	4548 - 5364-???	4576 - 5871-COM
4447 - 5875-MMA	4516 - 5871-AAA	4549 - 5871-AAA	4577 - 5871-AAA
4449 - 5875-UPG	4517 - 5871-AAA	4549 - 5871-COM	4577 - 5871-COM
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4452 - 5875-MMA	4522 - 5871-AAA	4552 - 5871-COM	4580 - 5871-COM
4453 - 5871-AAA	4523 - 5871-AAA	4553 - 5871-AAA	4581 - 5871-AAA
4453 - 5875-MMA	4526 - 5871-AAA	4553 - 5871-COM	4581 - 5871-COM
4454 - 5871-AAA	4526 - 5871-COM	4554 - 5871-AAA	4582 - 5714-PC1
4454 - 5875-MMA	4527 - 5871-AAA	4554 - 5871-COM	4582 - 5871-AAA
4457 - 5871-BBB	4527 - 5871-COM	4555 - 3117-010	4582 - 5871-COM
4457 - 5875-MMM	4528 - 5871-AAA	4556 - 5871-AAA	4583 - 5871-AAA
4458 - 5871-BBB	4528 - 5871-COM	4556 - 5871-COM	4583 - 5871-COM
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4459 - 5871-BBB	4529 - 5871-COM	4557 - 5871-COM	4584 - 5871-COM
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4461 - 5871-BBB	4531 - 5871-COM	4559 - 5871-COM	4586 - 5871-COM
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4464 - 5870-LLA	4532 - 5871-COM	4560 - 5871-COM	4587 - 5871-COM
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4468 - 5871-AAA	4536 - 5871-COM	4564 - 5871-COM	4591 - 5871-AAA
4468 - 5875-MMA	4537 - 5871-AAA	4565 - 5871-AAA	4591 - 5871-COM
4469 - 5150-MNL	4537 - 5871-COM	4565 - 5871-COM	4592 - 5871-AAA
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4593 - 5871-COM	4619 - 5871-AAA	4662 - 5871-AAA	4704 - 5871-AAA
4594 - 5601-053	4620 - 5871-AAA	4663 - 5871-AAA	4704 - 6150-ZZZ
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4596 - 5871-AAA	4624 - 5871-AAA	4668 - 5871-AAA	4708 - 5871-AAA
4596 - 5871-COM	4625 - 5871-AAA	4669 - 5871-AAA	4709 - 5871-AAA
4597 - 5871-AAA	4626 - 5871-AAA	4670 - 5871-AAA	4710 - 5871-AAA
4597 - 5871-COM	4627 - 5871-AAA	4671 - 5871-AAA	4710 - 6150-ZZZ
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4598 - 5871-COM	4628 - 5871-AAA	4673 - 5871-AAA	4712 - 5871-AAA
4599 - 5871-AAA	4630 - 5871-AAA	4674 - 5871-AAA	4713 - 5871-AAA
4599 - 5871-COM	4631 - 5871-AAA	4675 - 5871-AAA	4714 - 5871-AAA
4600 - 5785-DFW	4632 - 5871-AAA	4676 - 5871-AAA	4715 - 5871-AAA
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4600 - 5871-COM	4633 - 5871-AAA	4678 - 5871-AAA	4717 - 5871-AAA
4601 - 5669-161	4634 - 5740-XR1	4679 - 5601-192	4718 - 5871-AAA
4601 - 5785-DFW	4634 - 5871-AAA	4679 - 5871-AAA	4719 - 5871-AAA
4601 - 5871-AAA	4635 - 5871-AAA	4680 - 5601-192	4720 - 5871-AAA
4601 - 5871-COM	4636 - 5871-AAA	4680 - 5871-AAA	4721 - 5871-AAA
4602 - 5669-162	4637 - 5871-AAA	4681 - 5601-192	4722 - 5871-AAA
4602 - 5871-AAA	4638 - 5669-179	4681 - 5871-AAA	4723 - 5871-AAA
4602 - 5871-COM	4638 - 5871-AAA	4682 - 5601-192	4724 - 5871-AAA
4603 - 5669-163	4639 - 5871-AAA	4682 - 5871-AAA	4725 - 5871-AAA
4603 - 5871-AAA	4640 - 5601-152	4683 - 5601-192	4726 - 5871-AAA
4603 - 5871-COM	4640 - 5871-AAA	4683 - 5871-AAA	4727 - 5871-AAA
4604 - 5669-031	4641 - 5601-152	4684 - 5601-192	4728 - 5871-AAA
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4605 - 5871-AAA	4642 - 5871-AAA	4686 - 5601-192	4732 - 5871-AAA
4605 - 5871-COM	4643 - 5669-032	4686 - 5871-AAA	4733 - 5871-AAA
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4606 - 5871-AAA	4644 - 5871-AAA	4687 - 5871-AAA	4735 - 6150-ZZZ
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4607 - 5871-AAA	4647 - 5871-AAA	4689 - 5871-AAA	4758 - 6150-ZZZ
4607 - 5871-COM	4648 - 5871-AAA	4690 - 5871-AAA	4762 - 6150-ZZZ
4608 - 5871-AAA	4649 - 5871-AAA	4691 - 5601-192	4764 - 5727-WS1
4608 - 5871-COM	4650 - 5664-319	4691 - 5871-AAA	4765 - 5727-WS1
4609 - 5871-AAA	4650 - 5871-AAA	4692 - 5871-AAA	4765 - 6150-ZZZ
4609 - 5871-COM	4651 - 5664-319	4693 - 5871-AAA	4766 - 5664-309
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4611 - 5871-AAA	4653 - 5871-AAA	4696 - 5871-AAA	4767 - 5871-AAA
4611 - 5871-COM	4654 - 5871-AAA	4697 - 5871-AAA	4768 - 5664-309
4612 - 5871-AAA	4655 - 5871-AAA	4698 - 5871-AAA	4768 - 5871-AAA
4612 - 5871-COM	4656 - 5871-AAA	4699 - 5871-AAA	4768 - 6150-ZZZ
4613 - 5871-AAA	4657 - 5871-AAA	4700 - 5871-AAA	4769 - 5664-309
4613 - 5871-COM	4658 - 5871-AAA	4701 - 5871-AAA	4770 - 5664-309
4614 - 5871-AAA	4659 - 5871-AAA	4702 - 4860-ZZZ	4771 - 5150-ZZZ
4615 - 5871-AAA	4660 - 5669-212	4702 - 5601-192	4771 - 5664-309
4616 - 5871-AAA	4660 - 5871-AAA	4703 - 5601-192	4773 - 5871-COM
4617 - 5871-AAA	4661 - 5669-212	4703 - 5871-AAA	4779 - 5871-AAA
4618 - 5871-AAA	4661 - 5871-AAA	4704 - 5601-192	4780 - 5871-AAA

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4781 - 5871-AAA	4827 - 5871-AAA	4925 - 5150-ZZZ	5236 - 5669-032
4782 - 5871-AAA	4828 - 5871-AAA	4927 - 5150-ZZZ	5240 - 8530-ZZZ
4783 - 5871-AAA	4829 - 5150-ZZZ	4928 - 5150-ZZZ	5279 - 5871-AAA
4784 - 5713-ADJ	4830 - 5871-AAA	5001 - 8530-ZZZ	5279 - 8550-ZZZ
4784 - 5871-AAA	4831 - 5871-AAA	5002 - 8530-ZZZ	5280 - 5871-AAA
4785 - 5713-ADJ	4832 - 5871-AAA	5003 - 8530-ZZZ	5317 - 3278-???
4785 - 5871-AAA	4833 - 5871-AAA	5004 - 8530-ZZZ	5318 - 3278-???
4786 - 5713-ADH	4834 - 5871-AAA	5010 - 5150-ZZZ	5335 - 5371-ZZZ
4786 - 5871-AAA	4835 - 5871-AAA	5010 - 6180-00?	5345 - 5875-XXX
4787 - 5871-AAA	4836 - 5871-AAA	5020 - 5601-060	5397 - 5875-MMA
4788 - 5871-AAA	4837 - 5871-AAA	5020 - 6182-001	5398 - 5871-AAA
4789 - 5871-AAA	4838 - 5871-AAA	5030 - 6182-001	5399 - 5871-AAA
4790 - 5871-AAA	4839 - 5150-ZZZ	5030 - 6184-001	5427 - 5150-ZZZ
4790 - 8550-ZZZ	4839 - 5871-AAA	5030 - 6186-???	5442 - 8550-ZZZ
4791 - 5871-AAA	4840 - 5871-AAA	5040 - 5150-ZZZ	5448 - 5871-AAA
4792 - 5727-WS6	4841 - 5871-AAA	5040 - 6182-001	5458 - 5871-AAA
4792 - 5871-AAA	4842 - 5871-AAA	5040 - 6186-???	5459 - 5871-AAA
4793 - 5871-AAA	4843 - 5871-AAA	5040 - 8550-ZZZ	5465 - 5664-298
4794 - 5871-AAA	4844 - 5871-AAA	5050 - 5150-ZZZ	5466 - 5664-298
4795 - 5871-AAA	4845 - 5871-AAA	5050 - 6180-001	5467 - 5664-298
4796 - 5871-AAA	4846 - 5871-AAA	5050 - 6184-001	5558 - 5664-319
4797 - 5871-AAA	4847 - 5871-AAA	5060 - 6180-00?	5559 - 5664-319
4797 - 6150-ZZZ	4849 - 5871-AAA	5060 - 6182-001	5612 - 5150-ZZZ
4798 - 5871-AAA	4850 - 5871-AAA	5060 - 6186-???	5612 - 8530-ZZZ
4799 - 5871-AAA	4851 - 5871-AAA	5063 - 5150-ZZZ	5614 - 5150-ZZZ
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4802 - 6150-ZZZ	4856 - 5871-AAA	5070 - 6182-001	5730 - 5371-ZZZ
4803 - 5871-AAA	4867 - 5871-BBB	5070 - 6184-001	5731 - 5371-ZZZ
4803 - 6150-ZZZ	4875 - 5871-COM	5070 - 6186-???	5763 - 5871-AAA
4804 - 5871-AAA	4876 - 5871-COM	5099 - 5601-053	5773 - 8530-ZZZ
4806 - 5871-AAA	4877 - 5871-COM	5124 - 5669-161	5774 - 8550-ZZZ
4807 - 5871-AAA	4878 - 5876-AAA	5125 - 5669-162	5797 - 5871-AAA
4808 - 5871-AAA	4879 - 5876-AAA	5126 - 5669-163	5797 - 5875-MMA
4809 - 5871-AAA	4880 - 5876-AAA	5137 - 5669-179	5802 - 5875-UPG
4810 - 5871-AAA	4881 - 5876-AAA	5146 - 5669-179	5838 - 5601-192
4811 - 5871-AAA	4882 - 5876-AAA	5181 - 5601-192	5848 - 5601-192
4812 - 5871-AAA	4883 - 5876-AAA	5182 - 5601-192	5850 - 5796-TBP
4812 - 6150-ZZZ	4884 - 5876-AAA	5183 - 5601-192	5851 - 5796-TBP
4813 - 5871-AAA	4885 - 5876-AAA	5184 - 5601-052	5852 - 5796-TBP
4814 - 5871-AAA	4886 - 5876-AAA	5184 - 5601-192	5858 - 5601-192
4814 - 6150-ZZZ	4887 - 5876-AAA	5185 - 5601-192	5858 - 5669-031
4815 - 5871-AAA	4888 - 5871-COM	5193 - 5669-031	5858 - 5796-TBP
4816 - 5871-AAA	4889 - 5871-COM	5194 - 5601-204	5888 - 5601-192
4816 - 6150-ZZZ	4890 - 5871-AAA	5194 - 5669-031	5888 - 5669-031
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4819 - 5871-AAA	4895 - 5871-COM	5197 - 5669-212	5898 - 5601-101
4820 - 5871-AAA	4896 - 5871-COM	5200 - 5150-ZZZ	5898 - 5601-192
4821 - 5871-AAA	4897 - 5871-AAA	5201 - 5601-060	5898 - 5669-031
4822 - 5871-AAA	4898 - 5871-AAA	5211 - 8550-ZZZ	5898 - 5669-032
4823 - 5871-AAA	4900 - 5150-ZZZ	5212 - 8550-ZZZ	5898 - 5669-033
4824 - 5871-AAA	4910 - 5150-ZZZ	5213 - 8550-ZZZ	5898 - 5669-034
4825 - 5871-AAA	4920 - 5150-ZZZ	5214 - 8550-ZZZ	5898 - 5669-212
4826 - 5871-AAA	4922 - 5875-UPG	5228 - 5669-032	5912 - 5871-COM

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5940 - 5871-BBB	6045 - 7531-041	6077 - 5871-BBB	6246 - 8530-ZZZ
5941 - 5871-BBB	6046 - 7531-041	6077 - 5875-MMM	6247 - 8550-ZZZ
5942 - 5876-BBB	6047 - 7531-041	6077 - 7552-???	6248 - 5727-WS1
5980 - 5871-BBB	6049 - 5150-ZZZ	6078 - 7552-???	6248 - 8550-ZZZ
5981 - 5872-BBB	6050 - 3852-001	6079 - 5871-BBB	6250 - 753?-111
5983 - 5871-BBB	6050 - 5150-ZZZ	6079 - 5875-MMM	6251 - 7531-111
5984 - 5872-BBB	6051 - 5150-ZZZ	6081 - 7552-???	6252 - 7532-111
5985 - 5876-BBB	6052 - 5150-ZZZ	6082 - 7552-???	6253 - 7531-111
5986 - 5873-BBB	6053 - 5150-ZZZ	6083 - 7552-???	6254 - 7532-111
5987 - 5873-BBB	6054 - 5150-ZZZ	6085 - 5871-BBB	6255 - 753?-111
5991 - 5876-BBB	6055 - 5150-ZZZ	6085 - 5875-MMM	6256 - 753?-111
5992 - 5873-BBB	6055 - 5871-AAA	6086 - 5871-BBB	6257 - 7544-???
5996 - 5871-BBB	6056 - 5150-ZZZ	6086 - 5875-MMM	6260 - 7544-???
5997 - 5873-BBB	6056 - 5871-AAA	6086 - 7552-041	6263 - 8550-ZZZ
6001 - 5531-011	6057 - 5150-ZZZ	6087 - 5871-BBB	6265 - 8550-ZZZ
6001 - 7531-041	6057 - 5871-AAA	6087 - 5875-MMM	6266 - 4683-00?
6002 - 5531-011	6058 - 5150-ZZZ	6089 - 7531-041	6266 - 8550-ZZZ
6003 - 5531-011	6058 - 5871-AAA	6094 - 5871-AAA	6267 - 8550-ZZZ
6004 - 5531-011	6058 - 8530-ZZZ	6094 - 5875-MMA	6279 - 8550-ZZZ
6004 - 5601-192	6059 - 5150-ZZZ	6094 - 7552-???	6286 - 5871-AAA
6005 - 5273-ZZZ	6059 - 5871-AAA	6095 - 5871-AAA	6287 - 5871-AAA
6005 - 5601-192	6059 - 8530-ZZZ	6095 - 5875-MMA	6293 - 8550-ZZZ
6006 - 5531-011	6060 - 5871-BBB	6095 - 7552-???	6320 - 8550-ZZZ
6010 - 5140-ZZZ	6060 - 5875-MMM	6096 - 7552-???	6321 - 8550-ZZZ
6011 - 8530-ZZZ	6061 - 5150-ZZZ	6097 - 7552-???	6322 - 8550-ZZZ
6017 - 5531-011	6061 - 5871-BBB	6098 - 7552-???	6323 - 8550-ZZZ
6018 - 5531-011	6061 - 5875-MMM	6113 - 5871-BBB	6334 - 5871-AAA
6019 - 7531-041	6062 - 5871-BBB	6115 - 5150-ZZZ	6335 - 5871-AAA
6020 - 7531-041	6062 - 5875-MMM	6128 - 5871-AAA	6341 - 6150-ZZZ
6023 - 7532-041	6063 - 5871-BBB	6128 - 5875-MMA	6351 - 5083-???
6023 - 8550-ZZZ	6063 - 5875-MMM	6132 - 5875-MMA	6371 - 5371-ZZZ
6024 - 7532-041	6064 - 5150-ZZZ	6135 - 5871-AAA	6401 - 8550-ZZZ
6025 - 7532-041	6065 - 5150-ZZZ	6148 - 5871-COM	6500 - 5793-AGN
6025 - 7544-???	6065 - 5871-BBB	6160 - 5150-ZZZ	6500 - 8550-ZZZ
6026 - 7534-001	6065 - 5875-MMM	6161 - 5150-ZZZ	6501 - 5793-AGN
6027 - 7534-001	6066 - 5150-ZZZ	6163 - 753?-111	6502 - 5793-AGW
6029 - 5531-011	6066 - 5871-BBB	6165 - 5150-ZZZ	6503 - 5793-AGW
6030 - 5140-ZZZ	6067 - 5871-AAA	6166 - 5150-ZZZ	6504 - 5793-AEY
6030 - 5150-ZZZ	6068 - 5150-ZZZ	6169 - 5876-AAA	6505 - 5793-AEY
6031 - 5150-ZZZ	6068 - 5871-AAA	6171 - 5871-AAA	6506 - 5793-AEY
6031 - 8530-ZZZ	6069 - 5150-ZZZ	6180 - 7552-???	6507 - 5793-AEY
6032 - 7531-041	6069 - 5871-AAA	6181 - 5727-WS6	6508 - 5793-AEY
6033 - 7531-041	6069 - 5975-MMA	6186 - 7552-???	6509 - 5793-AEY
6034 - 7534-001	6070 - 5870-LLA	6187 - 7552-???	6510 - 5793-AEY
6035 - 5531-011	6070 - 5871-AAA	6192 - 7552-???	6511 - 5793-AEY
6035 - 7531-041	6070 - 7552-???	6193 - 7552-???	6512 - 5793-AEY
6036 - 7532-041	6071 - 7552-???	6221 - 7552-???	6517 - 5727-WS6
6037 - 7532-041	6072 - 7552-???	6222 - 7552-???	6517 - 5793-AEY
6038 - 7531-041	6073 - 7552-???	6223 - 7552-???	6518 - 5793-AEY
6039 - 7531-041	6074 - 7552-???	6240 - 8530-ZZZ	6519 - 5793-AEY
6040 - 7531-041	6075 - 5871-BBB	6241 - 8530-ZZZ	6520 - 5793-AEY
6041 - 5871-AAA	6075 - 5875-MMM	6242 - 5871-AAA	6521 - 5793-AGB
6041 - 5875-MMA	6075 - 7552-???	6242 - 8530-ZZZ	6522 - 5793-AGX
6042 - 8530-ZZZ	6076 - 5871-BBB	6243 - 7531-ZZZ	6523 - 5793-AGX
6043 - 8530-ZZZ	6076 - 5875-MMM	6243 - 8530-ZZZ	6525 - 5793-AEY
6044 - 7532-041	6076 - 7552-???	6245 - 8530-ZZZ	6526 - 5793-AEY

6529 - 5793-AEY	6593 - 5793-AGQ	6666 - 8550-ZZZ	7501 - 1537-?01
6530 - 5793-AEY	6594 - 5793-AGW	6685 - 5204-001	7502 - 1537-?01
6532 - 5793-AFD	6595 - 5793-AGQ	6690 - 5150-ZZZ	7503 - 1537-?01
6535 - 5793-AGR	6596 - 5793-AGQ	6691 - 5150-ZZZ	7504 - 1537-?01
6536 - 5793-AGQ	6597 - 5793-AGQ	6698 - 5150-ZZZ	7505 - 1537-?01
6537 - 5793-AGQ	6598 - 5793-AGQ	6701 - 8550-ZZZ	7506 - 1537-?01
6538 - 5793-AGW	6600 - 5793-AFF	6714 - 1598-S03	7507 - 1537-?01
6539 - 5793-AGW	6601 - 5793-ACX	6724 - 1584-S02	7508 - 1537-?01
6540 - 5793-AGW	6601 - 8550-ZZZ	6725 - 1584-S02	7561 - 6150-ZZZ
6541 - 5793-AGW	6602 - 5793-ACX	6727 - 1598-S17	7564 - 6150-ZZZ
6542 - 5793-AGW	6602 - 5793-AGC	6810 - 6150-ZZZ	7586 - 6150-ZZZ
6543 - 5793-AGW	6603 - 5793-ACX	6815 - 6150-ZZZ	7619 - 1598-S13
6544 - 5793-AGW	6603 - 5793-AGC	6941 - 6150-ZZZ	7641 - 6150-ZZZ
6546 - 5793-AGQ	6603 - 5793-AHC	7000 - 5204-001	7658 - 6150-ZZZ
6547 - 5793-AGQ	6603 - 5793-AHH	7000 - 6150-ZZZ	7675 - 5371-ZZZ
6549 - 5793-AGQ	6604 - 5793-AHD	7001 - 5373-ZZZ	7676 - 5371-ZZZ
6550 - 5714-PC1	6604 - 5793-AHE	7001 - 5601-192	7743 - 8550-ZZZ
6550 - 5793-AGP	6604 - 5793-AHF	7001 - 8530-ZZZ	7771 - 5871-AAA
6551 - 5793-AGT	6605 - 5793-AHC	7002 - 5373-ZZZ	7771 - 5875-MMA
6553 - 5793-AEZ	6606 - 5793-AHC	7002 - 5601-192	7801 - 1596-F01
6554 - 5793-AEZ	6607 - 5793-AHE	7002 - 8550-ZZZ	7820 - 5150-ZZZ
6555 - 5793-AEZ	6608 - 5793-AHE	7003 - 5371-ZZZ	7820 - 5223-001
6556 - 5793-AGB	6609 - 5793-ACX	7004 - 5371-ZZZ	7833 - 5150-ZZZ
6557 - 5793-AGB	6609 - 5793-AGC	7004 - 6150-ZZZ	7833 - 8550-ZZZ
6558 - 5793-AFD	6609 - 5793-AHE	7008 - 6150-ZZZ	7840 - 5150-ZZZ
6559 - 5793-AFA	6609 - 5793-AHF	7010 - 6150-ZZZ	7840 - 5223-001
6560 - 5793-AFA	6610 - 5793-AHA	7011 - 6150-ZZZ	7848 - 5669-031
6561 - 5793-AFF	6611 - 5793-AHF	7022 - 5871-AAA	7853 - 1596-D01
6562 - 5793-AFF	6612 - 5793-AHF	7022 - 5875-MMA	7854 - 1596-D01
6564 - 5793-AFC	6613 - 5793-AHE	7034 - 5871-AAA	7858 - 5669-031
6566 - 5793-AFC	6613 - 5793-AHF	7034 - 5875-MMA	7858 - 5669-032
6567 - 5793-AGT	6614 - 5793-AHF	7036 - 5871-AAA	7860 - 5871-AAA
6568 - 5793-AGP	6615 - 5793-AHA	7036 - 5875-MMA	7860 - 6150-ZZZ
6569 - 5793-AGR	6616 - 5793-AHG	7039 - 5798-FAL	7868 - 5669-031
6570 - 5793-ACW	6617 - 5793-AHG	7040 - 5669-031	7868 - 5669-032
6571 - 5793-ACW	6618 - 5793-AHD	7040 - 5669-212	7873 - 5871-AAA
6572 - 5793-ACX	6619 - 5793-AHD	7040 - 5871-AAA	7880 - 5150-ZZZ
6573 - 5793-AGC	6622 - 5793-AHH	7040 - 5875-MMA	7888 - 5669-032
6575 - 5150-ZZZ	6623 - 5793-AHH	7041 - 5150-ZZZ	7893 - 6150-ZZZ
6576 - 5793-ACX	6625 - 5793-ACX	7041 - 5669-031	7898 - 5669-031
6577 - 5793-AGC	6625 - 5793-AGC	7042 - 5669-031	7898 - 5669-032
6579 - 5793-ACX	6625 - 5793-AHE	7043 - 5798-FAL	7899 - 5871-AAA
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6579 - 5793-AHC	6627 - 5793-AEY	7043 - 5875-MMA	7910 - 5201-00?
6579 - 5793-AHH	6629 - 5793-AEY	7045 - 5871-AAA	7920 - 5201-00?
6583 - 5150-ZZZ	6631 - 5793-AEY	7045 - 5875-MMA	7930 - 5201-00?
6583 - 5793-AGC	6632 - 5793-AEY	7062 - 5873-AAA	7933 - 5871-AAA
6585 - 5150-ZZZ	6633 - 5793-AEY	7082 - 5874-AAA	7934 - 5871-AAA
6585 - 5793-AGF	6635 - 5793-AEY	7122 - 8550-ZZZ	7935 - 5872-AAA
6586 - 5793-AGF	6636 - 5793-AEY	7123 - 5876-AAA	7936 - 5873-AAA
6587 - 5793-AGW	6639 - 5793-AHB	7124 - 5873-AAA	7937 - 5873-AAA
6588 - 5793-AGW	6640 - 5793-AHB	7125 - 5873-AAA	7938 - 5873-AAA
6589 - 5793-AGW	6641 - 5793-AGY	7126 - 5874-AAA	7939 - 5876-AAA
6590 - 5793-AGW	6642 - 5793-AGY	7259 - 8550-ZZZ	7940 - 5201-00?
6591 - 5793-AGW	6647 - 5793-AGZ	7426 - 4680-00?	7940 - 5873-AAA
6592 - 5793-AGW	6648 - 5793-AGZ	7429 - 4680-00?	7941 - 5873-AAA

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7942 - 5873-AAA	8750 - 8530-ZZZ	9047 - 5871-AAA	9223 - 4683-00?
7953 - 5873-AAA	8760 - 8550-ZZZ	9047 - 5875-MMA	9228 - 5871-BBB
7954 - 5873-AAA	8770 - 8550-ZZZ	9080 - 5793-AGF	9228 - 5875-MMM
7955 - 5873-AAA	8873 - 5871-AAA	9080 - 5793-AGN	9266 - 5875-XXX
7956 - 5873-AAA	8880 - 5875-UPG	9080 - 5793-AGP	9340 - 5871-BBB
7957 - 5873-AAA	8881 - 8550-ZZZ	9080 - 5793-AGQ	9340 - 5875-MMM
7958 - 5873-AAA	8910 - 5871-AAA	9080 - 5793-AGR	9358 - 5871-AAA
8000 - 6152-ZZZ	8913 - 5875-UPG	9080 - 5793-AGT	9358 - 5875-MMA
8000 - 8550-ZZZ	8968 - 5871-AAA	9080 - 5793-AGW	9360 - 5870-LLL
8001 - 5150-ZZZ	8968 - 5871-COM	9080 - 5793-AGX	9360 - 5871-BBB
8001 - 6152-ZZZ	8969 - 5871-AAA	9080 - 5793-AGY	9367 - 5871-BBB
8002 - 5150-ZZZ	8969 - 5871-COM	9080 - 5793-AGZ	9367 - 5875-MMM
8002 - 5669-031	8970 - 5875-UPG	9080 - 5793-AHA	9371 - 5204-001
8002 - 6152-ZZZ	8989 - 5870-LLA	9080 - 5793-AHB	9372 - 5204-001
8003 - 5150-ZZZ	8989 - 5871-AAA	9103 - 5875-XXX	9383 - 5204-001
8003 - 5669-212	8993 - 6150-ZZZ	9104 - 5875-XXX	9383 - 5871-BBB
8005 - 5669-031	9001 - 5601-052	9129 - 5785-DFW	9384 - 5204-001
8006 - 5669-031	9001 - 5601-053	9131 - 5785-DVW	9384 - 5871-BBB
8007 - 5669-031	9001 - 5601-060	9173 - 5875-XXX	9385 - 5871-BBB
8017 - 5150-ZZZ	9001 - 5601-192	9174 - 5875-XXX	9385 - 5875-MMM
8018 - 5150-ZZZ	9001 - 5601-204	9175 - 5875-XXX	9389 - 5871-BBB
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8077 - 5204-001	9001 - 5664-319	9178 - 5875-MMM	9391 - 5204-001
8161 - 5871-BBB	9001 - 5669-031	9186 - 5875-XXX	9396 - 5875-XXX
8162 - 5872-BBB	9001 - 5669-032	9193 - 5871-BBB	9410 - 5875-XXX
8168 - 5871-BBB	9001 - 5669-033	9193 - 5875-MMM	9445 - 5871-AAA
8174 - 5875-XXX	9001 - 5669-161	9194 - 5871-BBB	9448 - 5871-AAA
8186 - 6150-ZZZ	9001 - 5669-162	9194 - 5875-MMM	9510 - 4680-00?
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8245 - 6150-ZZZ	9001 - 5710-RTJ	9196 - 5875-MMM	9520 - 5727-LC1
8277 - 4680-00?	9001 - 5785-DFW	9197 - 5871-BBB	9538 - 5150-ZZZ
8278 - 4680-00?	9001 - 5793-AAN	9197 - 5875-MMM	9543 - 5875-XXX
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8314 - 8530-ZZZ	9001 - 5793-ACW	9198 - 5875-MMM	9582 - 5714-PC1
8335 - 5872-AAA	9001 - 5793-ACX	9200 - 5871-BBB	9588 - 5875-XXX
8362 - 5150-ZZZ	9001 - 5793-AEY	9200 - 5875-MMM	9600 - 5798-DXC
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8393 - 5872-BBB	9001 - 5793-AFC	9201 - 5875-MMM	9623 - 5870-LLL
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8541 - 6150-ZZZ	9001 - 5793-AGB	9202 - 5871-BBB	9624 - 5875-MMM
8570 - 5150-ZZZ	9001 - 5793-AGC	9203 - 5870-LLL	9630 - 5871-AAA
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