IBM Personal System/2 and IBM Personal Computer Product Reference, Version 4.0

April 6, 1987

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--- KEY ---

A - Z	(Upper Case) Items are available on Quantity Discount Agreement
A - Z	(Lower Case) Items are available on Volume Purchase Agreement
#	Personally Developed Software (call 1-800-IBM-PCSW to order)
A - Z # \$	Vendor-Logo items (no PCAC support, purchase and maintenance by spe-
	cial bid, in quantities of 20 or more)
*	Items do not bear the IBM Trademark
* *	Items are supported through a Technical Support Location
N/A	Not available.
N/C	No charge when ordered in reasonable quantities through an IBM Market-
	ing Representative.
PCTB	PC Technical Directory publication (call 1-800-IBM-PCTB or your IBM
	Marketing Representative to order)
W/D	Withdrawn from marketing.

Change bars indicate changes since April 2, 1987.

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SPECIAL PROMOTIONAL OFFERINGS

RT PC AIX OPERATING SYSTEM PROMOTIONAL OFFERING

On February 17, 1987, IBM announced a promotion that provides credit for the licensing price of the IBM Advanced Interactive Executive (AIX) toward the purchase of an RT PC New Model Series Upgrade Kit. This applies to customers who purchase an RT PC Model 15, 20, 25, or A25 and the upgrade kit, and obtain the AIX software directly from IBM during the promotional period.

The intent of the promotion is to encourage customers who may be interested in the new models of the RT PC to accept delivery of the existing models before new ones become available. The promotion makes it possible to upgrade to a new model for a net cost of about \$200 (price of the upgrade kit of \$2495, less credit for the purchase price of AIX 1.1 unit one price of \$2295). The overall system cost (old model, plus upgrade) can be significantly less than the cost of a new model RT PC, yet results in an equivalent configuration.

Every AIX 1.1 shipped after February 17, 1987, will contain a Promotion Certificate valid from April 15, 1987 through July 31, 1987, which provides to the customer return of the value paid for AIX 1.1 toward the purchase of the New Model Series Upgrade Kit.

For more information, see your IBM Marketing Representative.

STORE EXPRESS TRIAL PROGRAM

IBM is announcing a three month trial program for IBM products used in retail stores. The trial will allow a customer the opportunity to evaluate the benefits of a point-of-sale system and a store-level application system. The IBM products eligible for the trial include

- an IBM 4680 Store System configuration,
- IBM 4680 system software,
- IBM 4680 sales application software,
- an IBM Series/1 configuration,
- IBM Series/1 system software
- Store Item Receiving Program Product,
- Store Item Management Program Offering.

The trial program may be entered between November 1, 1986, and June 30, 1987. For further information, see your IBM Marketing Representative.

SPECIAL PROMOTION FOR THE IBM 5140 PC CONVERTIBLE

Effective November 4, 1986, IBM announces a promotional offering that provides customers who purchase an IBM 5140 PC Convertible within the promotional period

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the IBM Personal Computer Disk Operating System (DOS) Version 3.2 licensed program with charges waived. IBM 5140 PC Convertible Models 002 and 022 shipped from IBM on or after November 1, 1986 and on or before April 30, 1987, will include a copy of DOS 3.2 (3.5in diskette) with charges waived.

These programs cannot be returned to IBM and cannot be exchanged or refunded for credit. These programs will not count toward any Quantity Discount Agreement (QDA) or special bid quantity commitment.

This offering is available to customers purchasing IBM 5140 PC Convertibles directly from IBM.

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 AGREEMENT

1. The terms below are from Exhibit 32WS-14, form Z125-9076-14, dated April, 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 Agreement. See your IBM Marketing Representative for details.

- 2. Contract Period Duration: 12 Months from Commencement Date
- 3. Eligible Machines:

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

Discou	nt Group:				
1	2	3	4	5	6
5140	3290	3104	3178	3101	3193
5160	5271	3179		3161	3194
5162	5273	3180		3162	
5170		3191		3163	
5171		3192		3164	
5173		3196			
8530		3197			
8550		3205			
8560		3278			
8580		3279			
		8775			

Figure 1. VPA Hardware Category A

```
-----Category B-----
Discount Group:
----1----
                 2
                           3
3363 5279
                3295
                          3979
4055 5378
                5272
4865 5379
4869 8503
5144 8512
5145 8513
5151 8514
5153 1593(b)
5154 1596(b)
5167 1597(b)
5178 1599
5278
```

Figure 2. VPA Hardware Category B

Category C	Category D	Category E	Category F	
3174	3299	5294	3852	
3274			4201	
3276			4202	
5294(c)			4207	
			4208	
			4216	
			5169	
			5181	
			5201	
			5216	
			5223	
			6180	
			7372	

Figure 3. VPA Hardware Categories C-F

Category G	Category H	Category J	Category K			
5277	1560	3117	5209			
	1561	3118				
	1581					
G	iltronix					

4. Discount Schedule

Quantity of			-Catego	-		
Eligible Machines	1	2	3	4	5	6
5-19	N/A	16%	6%	10%	N/A	N/A
20-49	12%	20	9	15	6%	6%
50 - 99	12	25	12	25	9	6
100-149	16	25	12	25	9	9
150-249	20	30	15	30	15	9
250-499	27	30	18	35	21	12
500-999	27	30	21	40	21	12
1000 and up	30	30	24	40	21	15

Category B: See Note 1 Below.

Figure 5. VPA Discount Schedule, Category A

Quantity		Category	Category
Eligible	Machines	С	D
5-14		9%	See
15-19		15	Note 2
20-29		20	Below
30-49		25	
50-84		30	
85-119		35	
120 and u	ıp	40	

Figure 6. VPA Discount Schedule, Categories C-D

Quantity	of	Category	Category	Category	Category
Eligible	Machines	F	G	H	J
20-49		12%	12%	12%	12%
50-149		16	16	16	16
150-249		20	20	20	20
250-499		24	24	20	24
500-999		27	27	20	27
1000 and	up	30	30	20	30

Figure 7. VPA Discount Schedule, Categories F-J

Quantity of Eligible Machines	Category K				
5-14	6%				
15-19	9				
20-29	12				
30-49	15				
50 and up	20				

Figure 8. VPA Discount Schedule, Category K

Greater discounts are available for a commitment of 500 or more selected machines in Category A via the Volume Procurement Agreement or by Special Bid.

- (b) The 1593, 1596, and 1597 are not eligible for discounts greater than 20%.
- (c) The 5294 Remote Control Unit counts toward the Total Quantity of Machines by Category but is not eligible for discounts greater than 20%.

NOTE 1: All machines in Discount Groups 1, 2, and 3 in Category B will receive the Discount Percent and Terms applicable for machines in the corresponding Discount Groups of Category A. The two Categories do not aggregate together for dermining the Category A discount.

NOTE 2: All machines in Category D will receive the Discount Percent and Terms applicable for machines in Category C. The two Categories do not aggregate together for dermining the Category C discount.

If you order a feature for installation in a machine in Discount Group 1 or 2 of Category A (other than a 3290) during the Contract Period, the feature receives a Discount Percent equal to that for the machine in which the feature will be installed. Features that could be ordered for machines on either Group will receive the Discount Percent applicable to Group 1.

- 5. Price Protection: (The customer is protected from price increases during the period of the Agreement).
- 6. Adjustment Charges: If the customer purchases fewer machines than contracted for, the customer will be charged a Reconciliation Charge per unit shipped. This charge is calculated as follows:
 - a. Subtract the discount percentage actually earned (if any, based on the number of units accepted) from the contracted discount percentage to yield the unearned discount percentage.
 - b. Convert the unearned discount percentage to a whole number (e.g., 6% becomes 6).
 - c. Multiply the resulting number by the applicable Reconciliation Charge shown below to determine the Reconciliation Charge per unit shipped.

			KECO	NULLIA	TION	CHARGE	S (RC)	
			C	ategor	у А				
Discou									
1-		2		3		4		 5	
Туре	RC	Туре	RC	Туре	RC	Type	RC	Туре	RC
4950	\$65	3290	\$75	3104	\$25	3178	\$10	3101	\$10
5140	20	5271	45	3179	20			3161	10
5150	25	5273	55	3180	20			3163	10
5160	30			3191	15			3164	15
5162	45			3192	18				
5170				3196	15				
-068	45			3205	30				
-099	50			3278	25			6	
-239	55			3279	25			Туре	RC
-319	55			5251	25				
-339	55			5291	25			3193	\$30
- 495	90			5292	25			3194	30
-496	108			8775	40				
- 599	50								
- 739	55								
-839	65								
-849	65								
-899	65								
-919	55								
- 939	55								
5171	75								
5371	50								
5373	55								
8530	25								
8550	40								
8560	65								
8580	90								

Figure 9. VPA Reconciliation Charges, Category A

```
-----Category B-----
Discount Group:
----1----
                    ----3----
Type
      RC Type RC Type RC
3363 $30 3295 $40
                    3279 $ 5
4055
      50 5272
                10
4865
       4
4869
       5
5144
       2
5145
       4
       3
5151
5153
       7
5154
       9
5161
      30
      8
5167
      15
5175
5178
       6
5278
      35
5279
      20
5378
      85
5379
      35
8503
      - 5
      10
8512
8513
      10
8514
      20
Figure 10.
           VPA Reconciliation Charges, Category B
```

Category	Category	Category	
Type RC	Type RC	Type RC	
3174 \$120 3274 140	3299 \$10	3852 \$10 4201 6	
3276 80 5294 35		4202 8 4207 8	
3271 03		4208 11	
		4216 22 4971 8	
		5169 40	
		5181 2 5201 15	
		5202 8 5216 20	
		5223 15	
		6180 20 7371 15	
		7372 20	

Figure 11. VPA Reconciliation Charges, Categories C-F

	•	Categ	-	_	•	_	•
•		Туре		•			
5277	\$4	1560 1561 1581	•	3117 3118	\$15 20	5209	\$60

Figure 12. VPA Reconciliation Charges, Categories G-K

- 7. The Customer may optionally extend the contract period once for three months with protected prices, subject to IBM approval, by committing to a quantity of machines that is approximately 25% higher than that in the Customer's original contract.
- 8. END USER CERTIFICATION: The Customer represents that the Customer is purchasing the machines for use within its own business enterprise and not for remarketing.
- 9. 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: Machines designated below which are purchased from an IBM Authorized Dealer, on or after June 16, 1986, and during the Contract Period, count towards the respective Total Quantity of Machines by Category. Adjustment Charges do not apply to such machines. Such sales by the Dealer to the Customer shall be under the Dealer's terms and conditions. Machines purchased from the Dealer and subsequently returned to the Dealer will not count toward this Total, nor will used machines; returns of machines must also be reported to IBM. The Customer will provide IBM with the machine type and model, serial number, date of purchase, and dealer name and address within one month of the purchase.

Category A	Category B	Category C	
4860 004	3852 002	4863 001	
067	4201 All	5144 001	
5140 002	4202 001	5145 001	
022	4207 A11	5151 001	
5150 166	4208 All	5153 001	
176	4216 020	5154 001	
5160 068	5169 002	5167 001	
078	5201 001	5175 001	
086	002	8503 All	
087	5202 All	8512 All	
088	5216 001	8513 All	
089	002	8514 All	
267	5223 001		
268			
277		Category D	
278			
5162 286		3363 All	
5170 068		4869 All	
099			
239			
319			
339			
5171 168			
339			
8530 All			
8550 All			
8560 All			
8580 A11			
Figure 13.	Customer Ful:	fillment Option	Categories

Effective January 26, 1987, IBM customers with a qualifying Industrial Computer VPA or special bid may purchase elegible machines from IBM, authorized IBM Industrial Computer Distributors, or Industrial Application Remarketers.

```
Industrial Computers
5531
7531
7532
7552
Industrial Computer Displays
5532-001
7534-001

Figure 14. Customer Fulfillment Option Categories - Industrial
```

Effective January 27, 1987, IBM customers with a qualifying RT-PC VPA or special bid may purchase elegible machines from IBM or IBM authorized dealers.

```
Eligible Machines
6150
6151
6153
6154
6155
6157

Figure 15. Customer Fulfillment Option Categories - RT-PC
```

HARDWARE - QUANTITY PURCHASE PLAN

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, feaure 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 Addressable 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 (PC AND TOKEN-RING NETWORKS)

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

Charges	Part	Feature	ssvo		
Description	Number	Code	Price		
IBM Token-Ring Network PC Ada	pter				
Quantity of 8	6339100	0370	\$ 4,726		
Quantity of 20	6339100	0371	11,398		
IBM PC Network Adapter					
Quantity of 8	6450213	0372	\$ 4,386		
Quantity of 20	6450213	0373	10,578		

SOFTWARE - QUANTITY DISCOUNT AGREEMENT

The terms below are from Exhibit 3580-8, form Z125-3580-08, dated April 2, 1. 1987.

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

- 2. Contract Period Duration: 12 Months from the Commencement Date.
- 3. Discount Schedule:

Applies individually to each category.

The Quantity Discount Agreement provides a discount based on the total quantity of licensed programs committed from a designated category.

Quantity of Programs	Discount	
by Category	Percent	
20-49	12%	
50-149	16%	
150-249	20%	
250-499	24%	
500-999	27%	
1000-1499	30%	
1500 and up	35 % *	
-		

^{*} Applies only to products ordered on 5871-BBB, 5872-BBB, 5873-BBB, 5874-BBB, or 5876-BBB.

Figure 17. QDA Discount Levels

4. ADDITIONAL LICENSES: For Eligible Licensed Programs identified in this Exhibit 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 and accepted by IBM, the Customer is authorized to make a single additional copy of the machine-readable program materials of an AL Program (an Additional License Copy). Additional License Copies are licensed under the IBM Program License Agreement contained in the QDA, 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

QDA. Orders for Additional Licenses will be accepted only for quantities of 20 or more per AL Program.

No copies may be transferred to third parties. Labeling, auditability, and control requirements also exist. See the full text of the Agreement for details.

- 5. Settlement Charges: Settlement Charges have been eliminated.
- 6. The Customer may optionally extend the contract period once for three months with protected prices, subject to IBM approval, by committing to a quantity of programs that is approximately 25% higher than that in the Customer's original contract.
- 7. The customer is responsible for providing administrative and installation support at locations to which programs will be shipped.
- 8. END USER CERTIFICATION: The Customer represents that the Customer is licensing the programs bearing the IBM Trademark for use within its own business enterprise and not for remarketing.

THE FOLLOWING SECTION APPLIES ONLY TO THE PROGRAMS INDICATED IN THE ELIGIBLE LICENSED PROGRAM LIST WITH A DOUBLE ASTERISK (**).

9. 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 213.

THE FOLLOWING SECTION DOES NOT APPLY TO ADDITIONAL LICENSES, PROGRAM PACKAGE UPGRADES, AND THOSE ELIGIBLE LICENSED PROGRAMS INDICATED IN THE ELIGIBLE LICENSED PROGRAM LIST WITH AN ASTERISK (*).

10. TESTING PERIOD: For each Eligible Licensed Program which is in a category listed in the QDA, the Customer may order up to three copies of each such program for a testing period. The testing period will commence ten days after shipment of the program from IBM and end in two months or at the end of the Contract Period or the end of the Contract period as extended, which ever 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 the program. The evaluation copies may not be transferred to any other party during the testing period.

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.

Category	Type/Model	
A	5871-AAA, 5872-AAA, 5873-AAA, 5874-AAA, 5876-AAA	
В	5871-BBB, 5872-BBB, 5873-BBB, 5874-BBB, 5876-BBB	
Figure 18.	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
М	5875-MMM or 5875-MMA
Figure 19.	QDA Ordering Vehicles (Old)

The above information applies to the Quantity Discount Agreement currently being offered by IBM. 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 redistributor)
- The Amendment to the IBM Program License Agreement (Customer Redistribution) (Z125-3527, for redistribution within the redistributor'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	Item No.	Application
Name		Charge
BASRUN.EXE	6135997	\$ 50
BASRUN20.EXE		
ISAM.EXE		
REBUILD.EXE		
CODDING DVD	(0777/0	ΕÓ
COBRUN.EXE	6277763	50
PCSORT.EXE	6277783	700
REBUILD.EXE	02///03	700
KEDUILD.EXE		
ADM.COM	6277784	100
11011.0011	0277704	100
INIT VDI.EXE	6277785	500
(This Applicat		also includes
all program fi	_	
letters VDI an	_	_
letters .SYS t	hat run wit	h the VDI
Controller Mod	ule VDI.SYS)

Graphics Development
Toolkit V.1.1 6280076 800

Figure 20. 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.

SOFTWARE - INDUSTRIAL COMPUTER SOFTWARE QUANTITY DISCOUNT AGREEMENT

- 1. Contract Period Duration: 18 Months from the Commencement Date.
- 2. Eligible Licensed Programs: See the section of Industrial Software, below.
- 3. Discount Schedule:

Applies individually to each category.

Discount	Quantity of Programs
Percent	by Category
10%	3-4
15%	5-14
20%	15-24
25%	25 and up

Figure 21. Industrial PC Software Discount Levels

4. Settlement Charges:

Category A B C D

Settlement Charge \$25 \$25 \$25 \$25 per Program

Figure 22. Industrial PC Settlement Charges

- 5. END USER CERTIFICATION: The Customer represents that the Customer is licensing the programs for use within its own business enterprise and not for remarketing.
- 6. The customer is responsible for providing administrative and installation support at locations to which programs will be shipped.

HARDWARE AND SOFTWARE - PC/RT AMENDMENTS

HARDWARE - PC/RT VOLUME PROCUREMENT AMENDMENT

- 1. Contract Period Duration: 12 Months from the Commencement Date.
- 2. Eligible Machines:

Category A	Category B	Category C			
6150 6151	6153 6154 6155	6157			
Figure 23.	PC/RT Hardware	categories		•	

3. Discount Schedule

Discount	Quantity	of Eligible	Machines		
Percent	Category A	Category B	Category C	:	
6%	4-6	4-6	4-6		
12%	7-9	7-9	7-9		
16%	10-12	10-12	10-12		
20%	13-15	13-15	13-15		
24%	16-18	16-18	16-18		
27%	19-21	19-21	19-21		
30%	22-24	22-24	22-24		
33%	25-49	25-49	25 - 49		
34%	50 and up	50 and up	50 and up		

Figure 24. PC/RT Discount Levels

For features ordered for installation on an eligible machine during the Contract Period, the Discount Percent will be the machine Discount Percent for the applicable Category, with a maximum of 30%.

- 4. Price Protection: (The customer is protected from price increases during the period of the Agreement).
- 5. Settlement Charges: This charge will be assessed for each machine committed to but not taken during the Contract Period.

Category A	Category B	Category C	
\$150	\$ 20	\$ 20	
Figure 25.	PC/RT Settler	ment Charges	

6. End-User Certification: The Customer represents that the Customer is purchasing the machines for use within its own business enterprise and not for remarketing.

SOFTWARE - PC/RT LICENSED PROGRAMS QUANTITY DISCOUNT AGREEMENT

- 1. Contract Period Duration: 12 Months from the Commencement Date.
- 2. Eligible Licensed Programs: See the section of PC/RT Software, below.
- 3. Discount Schedule:

Applies individually to each category.

Discount	Quantity of Programs
Percent	by Category
11%	4-6
17%	7-9
22%	10-12
27%	13-15
32%	16-18
36%	19-21
39%	22-24
42%	25-49
43%	50 and up

Figure 26. PC/RT Software Discount Levels, Category A

Discount	Quantity of Programs	
Percent	by Category	
6%	4-6	
12%	7 - 9	
16%	10-12	
20%	13-15	
24%	16-18	
27%	19-21	
30%	22-24	
33%	25-49	
34%	50 and up	

Figure 27. PC/RT Software Discount Levels, Category B

- 4. Adjustment Charges: (If the customer purchases fewer licenses than contracted for in any category, any unearned discount taken is repaid to IBM. There will also be a charge, calculated as one percent of the undiscounted value of the licenses actually accepted, added to the Adjustment Charge.)
- 5. End User Certification: The Customer represents that the Customer is licensing the programs bearing the IBM trademark for use within its own business enterprise and not for remarketing.

SOFTWARE - IBM CAD/CAM PROGRAMS VOLUME LICENSE AMENDMENT

- 1. Contract Period Duration: 12 Months from the Commencement Date.
- 2. Eligible Licensed Programs:

Category A	Category B	Category C	Category D	Category E		
5669-193	5669-167	5669-192 5713-ABF 5713-ABG	5669-206	5669-207 5669-208 5669-209		
Category F						
5713-AAP 5713-AAW						

Figure 28. IBM CAD/CAM Program Categories

3. Discount Schedule:

5713-AAX 5713-AAY 5713-AAZ

Discount	Quantity	of Eligible N	lachines		
Percent	Category A	Category B	Category C		
5%	5-10	5-20	N/A		
10%	11-20	21-50	N/A		
15%	21-30	51-100	6-10		
20%	31 and up	101-150	N/A		
25%		151 and up	11-25		
30%		• •	26-50		
35%			51 and up		

Figure 29. CAD/CAM Software Discount Categories A-C

Discount Percent	Quantity Category D	of Eligible Category E	Machines Category F
5%	N/A	N/A	N/A
10%	N/A	N/A	6-10
15%	N/A	3-8	11-25
20%	3-4	N/A	26-50
25%	N/A	N/A	51 and up
30%	5 and up	9 and up	
35%			

- 4. Price Protection: (The customer is protected from price increases during the period of the Agreement).
- 5. Settlement Charges: This charge will be assessed for each program committed to but not taken during the Contract Period.

Category A	Category B	Category C	
\$150	\$ 20	\$ 80	
Category D	Category E		
\$ 15	\$ 75		
Figure 31.	CAD/CAM Settl	lement Charges	

SOFTWARE - IBM VOLUME LICENSE AMENDMENT FOR CAD/CAM LICENSED PROGRAMS

- 1. Contract Period Duration: 12 Months from the Commencement Date.
- 2. Eligible Licensed Programs:

Category A	Category B	Category C
5669-191	5713-AAL	5713-AAN 5713-AAM
Figure 32.	Eligible Pr	ograms, CAD/CAM VLA

Discount Schedule:

Discount		Quantity			
Percent	Category A	Category B	Category C		
5%	N/A	5-10	See		
10%	N/A	11-20	Note		
15%	6-10	21-30	Below		
20%	N/A	31 and up			
25%	11-25				
30%	26-50				
35%	51 and up				

NOTE: Licensed Programs in Category C will receive the same Discount Percent and associated terms and conditions received by the programs in Category B but are not added together with Category B programs for determining the Category B discount.

- End User Certification: The Customer represents that the Customer is licensing the programs for use within its own business enterprise and not for remarketing.
- Settlement Charges: This charge will be assessed for each program committed to but not taken during the Contract Period.

Category A	Category B	Category C	
\$50	\$85	N/A	
Figure 34.	CAD/CMA Set	tlement Charges	

The customer is responsible for providing administrative and installation support at locations to which programs will be shipped.

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.

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 warAs of April 6, 1987

ranty.

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	8530
4950	5170*	8550
5140	5171T	8560
5150	5271	8580
5155	5273	
5160	5371	
	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 Qulaifying Machines.

Figure 35. VMA Qualifying Machines

Discount Schedule

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

Figure 36. 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		
4201 Proprinter		Wheelprinter
4202 Proprinter XL		Wheelprinter E
4207 Proprinter X24		Color Display
4208 Proprinter XL24		Color Plotter
4216 Pers. Pageprinter	8503	Mono Display
4863 PCjr Display		Color Display
4865 3.5in Dette Drive		Color Display
4869 Diskette Drive		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		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 37. 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 management 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 a 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 or three 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		e e e e e e e e e e e e e e e e e e e	500
LIS-III	LAN Implementation	Services	III - Base Fee	1000
LIS-III	LAN Implementation			
	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 5162, 5170, or 8530 and includes:

- IBM Personal Pageprinter (4216)
- IBM Personal Pageprinter Adapter
- IBM Personal Pageprinter Adapter Program
- IBM and Vendor environment/application software

The IBM and Vendor software referred to above includes:

- support for the full PostScript language
- Microsoft Windows
- Aldus Pagemaker

IBM SolutionPac, Personal Publishing System, with	
8530 and Monochrome Display (3Q87)	8553
IBM SolutionPac, Personal Publishing System, with	
8530 and Color Display (3Q87)	8988
IBM SolutionPac, Personal Publishing Option, to	
upgrade XT/286, AT, or 8530 (3Q87)	5793
Installation fee, SolutionPac Personal Publishing	
System (3Q87)	290
Installation fee, SolutionPac Personal Publishing	
Option (3Q87)	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
- 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

As of April 6, 1987

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 throught 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 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,	
olus 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
Todacton at the same time	50
4680 Application Software Installation and	
Customization for each store installation	4750

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 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 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.



PROCESSORS - PERSONAL SYSTEM/2 (EXCEPT 8530)

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

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 (2Q87)

6295

8580-041 a Personal System/2 Model 80 (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 (7/87)

6995

8580-071 a Personal System/2 Model 80 (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 (7/87)

8495

8580-111 a Personal System/2 Model 80 (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 (4Q87)

10995

PERSONAL SYSTEM/2 SUPPORT PUBLICATIONS (EXCEPT 8530)

S68X-2247	Ouick Reference.	Personal System/2	Mode1	50	45
S68X-2213	•	Personal System/2			45
S68X-2259	•	Personal System/2			
	-071				45
68X2284	Quick Reference,	Personal System/2	Model	80-111	45

MODEL/FC VPA DESCRIPTION	PRICE
S68X-2246 Setup Sheet, Personal System/2 Model 50 S68X-2209 Setup Sheet, Personal System/2 Model 60	3
S68X-2222 Hardware Maintenance Service, Personal System/2 S68X-2255 Hardware Maintenance Service Supplement, Person	
System/2 Model 80-041, -071 S68X-2286 Hardware Maintenance Service Supplement, Person System/2 Model 80-111	75 al 75
System/2 Model 80-111	/3
S68X-2221 Hardware Maintenance Reference, Personal System S68X-2254 Hardware Maintenance Reference Supplement,	
Personal System/2 Model 80-041, -071 S68X-2287 Hardware Maintenance Reference Supplement,	50
Personal System/2 Model 80-111	50
S229-9605 Hardware Maintenance Binder, Personal System/2	??
S68X-2224 Technical Reference Manual, Personal System/2 (Model 50, 60 systems)	125
S68X-2256 Technical Reference Manual, Personal System/2 (Model 80-041, -071)	125
S68X-2285 Technical Reference Manual Update, Personal	
System/2 (Model 80-111) S68X-2260 Technical Reference Manual, Personal System/2	125
(BIOS)	75
S229-9606 Technical Reference Binder, Personal System/2	??
PROCESSOR FEATURES - PERSONAL SYSTEM/2 (EXCEPT 8530)	
3001 a IBM Personal System/2 80287 Math Co-Processor	525
3002 a IBM Personal System/2 80387 Math Co-Processor (8580 model 041, 071) (3Q87)	for 795
8720 a IBM Personal System/2 80387 Math Co-Processor (
8580 model 111) (4Q87)	1195
MEMORY - PERSONAL SYSTEM/2 (EXCEPT 8530)	
3006 a IBM Personal System/2 80286 Memory Expansion	
Option (.5MB standard, maximum 2MB)	549
3012 a IBM Personal System/2 80286 Memory Expansion Ki (.5MB, for use on FC 3006)	it 165
S68X-2227 Technical Reference Manual, 80286 Memory Expansion, Personal System/2	6
3009 a IBM Personal System/2 80386 System Board Memory	
Expansion Kit (1MB, for 8580-041 only) (7/87)	/ 695

MODEL/FC VPA	DESCRIPTION	PRICE
	IBM Personal System/2 80386 Memory Expansion Option (2MB standard, max. 6MB) (7/87) IBM Personal System/2 80386 Memory Expansion Kit (2MB, for use on FC 3019) (7/87) Technical Reference Options/Adapters Manual,	1595 1295
	2MB-6MB Memory Expansion Option, Personal System/2	10
8722 a	IBM Personal System/2 80386 System Board Memory Expansion Kit (2MB, for 8580-111 only) (4Q87)	1295
	IBM 2MB Expanded Memory Adapter/A (XMA) for Personal System/2 Models 50 and 60, supported by 3270 Workstation Program as XMA, EMS, and VDISK, (10/87)	1045
SA23-1043	Technical Reference Manual, 2MB Expanded Memory Adapter/A (XMA)	??
SA23-1032	Hardware Maintenance Service Update, 2MB Expanded Memory Adapter/A (XMA)	??
	SS STORAGE DEVICES, PERSONAL SYSTEM/2 (EXCEPT IBM Personal System/2 1.44MB Diskette Drive (3Q87)	8530 3
S68X-2225	Technical Reference Manual, 720KB/1.44MB Diskette Drive, Personal System/2	6
8760 a	Personal System/2 5.25in External Diskette Drive Adapter/A for attaching 4869-1 to Personal System/2 except 8530 (5/87)	60
S68X-2219	Technical Reference Manual, 20MB Fixed Disk Drive, Personal System/2 Model 50	10
S68X-2226	Technical Reference Manual, Fixed Disk Adapter, Personal System/2 Model 50	12
S68X-2234	Technical Reference Manual, ESDI Adapter/A, Personal System/2	12
	IBM Personal System/2 44MB Fixed Disk Drive (for 8560-041, 8580-041) (3Q87)	1395
S68X-2233	Technical Reference Manual, 44MB Fixed Disk Drive, Personal System/2	6
3051 a	IBM Personal System/2 70MB Fixed Disk Drive (ESDI technology, for 8560-071, 8580-071, 8580-111) (3Q87)	2395
S68X-2235	Technical Reference Manual, 70MB Fixed Disk Drive, Personal System/2	6
8730 a	IBM Personal System/2 115MB Fixed Disk Drive (ESDI technology, for 8560-071, 8580-071, 8580-111) (4Q87)	3495

MODEL/FC VP	A DESCRIPTION	PRICE
S68X-2236	Technical Reference Options/Adapters Manual, 115MB Fixed Disk, Personal System/2	6
	Internal Optical Disk Drive (200MB, removable media, write once) (installs in Personal System/2 Model 60 and 80) (4Q87)	2700
3363-A11 b	External Optical Disk Drive (200MB, removable media, write once) (attaches to Personal System/2 except Model 30) (3Q87)	2950
TAPE BACKUP	DEVICES, PERSONAL SYSTEM/2 (EXCEPT 8530)	
4160	6157 Tape Attachment Adapter for Personal System/2, req. SY-TOS Tape Utilities V.2 (9/87)	350
MISCELLANEO	OUS FEATURES, PERSONAL SYSTEM/2 (EXCEPT 8530)	
8770 a	IBM Personal System/2 Mouse (two-button	
	mechanical, attaches to integrated pointing-device port, also for 8530)	95
S68X-2229	Technical Reference Manual, Mouse, Personal System/2	6
DISPLAYS AN	D ATTACHMENTS, PERSONAL SYSTEM/2 (EXCEPT 8530)	
	means of the IBM Display Adapter, FC 4050. The IBM Dist nced function for the 8530. The following displays are supported on the IBM	splay Adapter
	Personal	
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 Megapel	250
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 Megapel	595
5004 <i>a</i>	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 Megapel	685

MODEL/FC VP	A DESCRIPTION	PRICE
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 Megapel (6/87)	1550
S68X-2206	Technical Reference Manual, 8503, 8512, 8513 Displays for Personal System/2	6
S68X-2214	Technical Reference Manual, 8514 Display for Personal System/2	6
S68X-2218	Hardware Maintenance Reference Supplement, Personal System/2 8514 Display	6
	All models of the Personal System/2 contain integrated monochrome and color graphics adapters for analog displays. The following features provide enhanced functions.	
4054 a	IBM Display Adapter 8514/A for Personal System/2 (exc. 8530) (Supports 8514 with 1024x768x16 color, performance improvements, 146 char x 51 lines,	1000
4081 a	also grey scale) (6/87) IBM 8514 Memory Expansion Kit for Personal System/2 (exc. 8530) (attaches to FC 4054) provides 256 colors from palette of 256K colors plus 64 grey levels on mono displays (6/87)	270
S68X-2251	Technical Reference Manual, Display Adapter 8514/A, Personal System/2	10
S68X-2248	Technical Reference Manual, Display Adapter 8514/A, Personal System/2	10
S68X-2249	Hardware Maintenance Reference Supplement, Personal System/2 Display Adapter 8514/A	6
S68X-2250	Hardware Maintenance Service Supplement, Personal System/2 Display Adapter 8514/A	6
S68X-2279	Display Adapter 8514/A Interface Application Developer's Tutorial	25
IMAGE DEVIC	E ATTACHMENT - PERSONAL SYSTEM/2 (EXCEPT 8530)	•
1029 a	3117 Adapter/A for Personal System/2 (exc. 8530) (Connects 3117, Pers Sys/2, Req. cable FC 3005)	280
SC18-2153 SK2T-0952	Technical Reference, 3117 Adapter/A Hardware Maintenance and Service, 3117 Adapter/A	9.95 30
1028 a	High Speed Adapter/A for Personal System/2 (exc. 8530) (Connects 3118, or 3117 with Expansion Unit to Pers Sys/2 at 1mbps RS422, req. serial communications cable FC 0217) (5/87)	295
SC18-2155	Technical Reference, High Speed Adapter/A	13.25

DESCRIPTION

PRICE

SK2T-0953

Hardware Maintenance and Service, High Speed

Adapter/A

23.75

DESCRIPTION

PRICE

COMMUNICATIONS HARDWARE AND SOFTWARE - PERSONAL SYSTEM/2 (EXCEPT 8530)

GENERAL

All models	of the	Personal	System/2	contain
integrated	serial	and paral	llel adapt	ers. The
following	features	s provide	enhanced	functions

3042 a	IBM Personal System/2 Multi-Protocol Adapter/A	
	(supports async, BSC, HDLC, SDLC to 19.2KBPS)	295
S68X-2220	Technical Reference Manual, Multi-Protocol	
	Adapter/A. Personal System/2	12

ASYNCHRONOUS COMMUNICATION, PERSONAL SYSTEM/2 (EXCEPT 8530)

See also the Multi-Protocol Communication Adapter/A

0349	а	IBM Personal System/2 300/1200 Internal Modem/A	
		(asynchronous)	395
S68X-2275		Technical Reference Manual, Internal Modem/A,	
		Personal System/2	6
S68X-2274		Hardware Maintenance Reference Supplement,	
		300/1200 Modem/A	12
3033	а	IBM Personal System/2 Dual Async Adapter/A (2	
		independent async ports to 19.2KBPS, max. 3 per	
		system)	210
S68X-2217		Technical Reference Manual, Dual Async Adapter/A,	
		Personal System/2	6

TWINAXIAL S/36, S/38 ATTACHMENT, PERSONAL SYSTEM/2 (EXCEPT 8530)

6279 a	IBM System 36/38 Workstation Emulation Adapter/A	
	and Quick Reference (incl. Diagnostics, 12/87)	620
6293 a	IBM System 36/38 Workstation Emulation Attachment	
	Cable (12/87)	65
SY31-9053	IBM System 36/38 Workstation Emulation Adapter	
	Hardware Maintenance and Service (12/87)	??
SA21-9862	IBM System 36/38 Workstation Emulation Adapter	
	Technical Reference (12/87)	??
SA21-9925	IBM System 36/38 Workstation Emulation Adapter/A	
	Quick Reference and Diagnostics (12/87)	??

MODEL/FC	VP!	A DESCRIPTION	PRICE
6286	A	IBM System 36/38 Workstation Emulation Program V.1.0 (4 sessions, graphics support) (3.5in) Test Period 2 months, Warranted, Central Service to 12/90 (12/87)	160
6287	A	IBM System 36/38 Workstation Emulation Program Convenience Kit, (incl. FC 6286, 6297, 6293, SA21-9925) Test Period 2 months, Warranted,	
SC21-8068		Central Service to 12/90 (12/87) System 36/38 Workstation Emulation Program Technical Reference (12/87)	845 ??
COAXIAL CO	MMC	MUNICATIONS, PERSONAL SYSTEM/2 (EXCEPT 8530)	
2000	a	IBM 3270 Connection for Personal System/2 (coax adapter) (5/29/87, except attachment to 8580-041/-071 available 9/25/87)	595
G126-0190)	3270 Connection Quick Reference and Diagnostics (5/29/87)	??
GA23-0339	•	3270 Connection Technical Reference (5/29/87)	??
LOCAL AREA	A N	ETWORKS, PERSONAL SYSTEM/2 (EXCEPT 8530)	
IBM TOKEN	-R]	ING NETWORK, PERSONAL SYSTEM/2 (EXCEPT 8530)	
8228-KT3	3	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) (5/87)	4710
		IBM Token-Ring Network Adapter/A for Personal System/2 (function equivalent to Adapter II) Remote Program Load for Token-Ring Network	795
6466690		Adapter/A (EPROM) (6/87) Update to Token-Ring Network PC Adapter Technical	90
		Reference for the Adapter/A (Chapter 9)	??
83X9112	<u>-</u>	IBM Token-Ring Network Adapter/A Hardware Maintenance Reference and Service Manual	270
IBM PC NET	ΓWC	ORK, PERSONAL SYSTEM/2 (EXCEPT 8530)	
1222	2 a	IBM PC Network Adapter II/A (broadband, 1 per PC, incl. 9-ft. coax, req. LAN Support Program or PC	
		Network Protocol Driver)	570

As of April 6, 1987

MODEL/FC VP	A DESCRIPTION	PRICE
S68X-2263 S68X-2271	IBM PC Network Adapter II/A Technical Reference IBM PC Network Hardware Maintenance and Service	21.25
	Supplement/A	8.50
1223 a S68X-2264	IBM PC Network Baseband Adapter/A (req. LAN Support Program) IBM PC Network Baseband Adapter/A Technical	470
	Reference	21.25

DESCRIPTION

PRICE

MODEL/FC VPA DESCRIPTION

PRICE

OPERATING SYSTEM/2 SOFTWARE

OS/2 OPERATING SYSTEMS AND PROGRAMMING AIDS

OPERATING SYSTEM/2 AND COMPILERS

7900	А	(3.5in) Test Period 2 months, Warranted, Central Services for 12 months from availability **	
		(availability will be announced 4Q87)	795
7899	Α	IBM Operating System/2 V.1.1 Extended Edition	.,,,
		(5.25in) Test Period 2 months, Warranted, Central	
		Services for 12 months from availability **	
		(availability will be announced 4Q87)	795
0634	Δ	ADDITIONAL LICENSE, IBM Operating System/2 V.1.1	7,7,3
0054	Δ	Extended Edition	595
0660	C	DOCUMENTATION ONLY, IBM Operating System/2 V.1.1	
0000	U	Extended Edition	N/A
0661	D	UPGRADE, IBM Operating System/2 V.1.0 Standard	14/ 2
0001	Б	Edition to Extended Edition 1.1 (3.5in) (through	
		??)	645
0660	ъ		043
0002	D	UPGRADE, IBM Operating System/2 V.1.0 Standard	
		Edition to Extended Edition 1.1 (5.25in) (through	645
0611	ъ	??)	643
0644	В	ADDITIONAL LICENSE of UPGRADE, IBM Operating	
		System/2 V.1.0 Standard Edition to Extended	1.00
		Edition 1.1	460
വജവമ	٨	IBM Operating System/2 V.1.1 Standard Edition	
0009	А	(3.5in) Test Period 2 months, Warranted, Central	
		Services for 12 months from availability **	325
0010	٨	IBM Operating System/2 V.1.1 Standard Edition	323
0010	А		
		(5.25in) Test Period 2 months, Warranted, Central	325
0610		Services for 12 months from availability **	323
0640	A	ADDITIONAL LICENSE, IBM Operating System/2 V.1.1	200
06/0	_	Standard Edition	290
0642	U	DOCUMENTATION ONLY, IBM Operating System/2 V.1.1	0.0
0011		Standard Edition	??
0811	A	IBM Operating System/2 V.1.1 Standard Edition	
		Programmer's Toolkit, Test Period 2 months,	
		Warranted, Central Service for 12 months from	
		availability ** (available ??)	750
0812	Α	IBM Operating System/2 V.1.1 Standard Edition	
		Technical Reference, Test Period 2 months,	
		Warranted, Central Service for 12 months from	
		availability ** (available ??)	200

MODEL/FC VPA DESCRIPTION	PRICE
	onths, Warranted, Central from availability ** (1Q88) 325
	nonths, Warranted, Central From availability ** (1Q88) 325 Operating System/2 V.1.0
Standard Edition 0641 C DOCUMENTATION ONLY, IBM	
Standard Edition 0927 A IBM Operating System/2 V Programmer's Toolkit, Te	
Warranted, Central Servi availability ** (1Q88) 0928 A IBM Operating System/2 \ Technical Reference, Tes	750 7.1.0 Standard Edition st Period 2 months,
Warranted, Central Servi availability ** (1Q88) 6280197 Transitional Offering, U	200 Upgrade DOS 3.X to
Operating System/2 V.1.0 3Q88) 6280199 Transitional Offering, U) (3.5in, available through 200 Upgrade DOS 3.X to
Operating System/2 V.1.0 through 3Q88)	
0820 A IBM Macro Assembler/2 (10822 A IBM BASIC Compiler/2 (10818 A IBM C/2 Compiler (1088) 0816 A IBM Cobol/2 Compiler (10824 A IBM FORTRAN/2 Compiler (10826 A IBM PASCAL/2 COMPILER (10	(288) Test Period 2 months595Test Period 2 months525(288), Test Period 2 months900(1Q88) Test Period 2 months595
GRAPHICS SOFTWARE, OPERATING SYS	TEM/2
0930 A IBM Operating System/2 (ToolKit, Test Period 2 m	
WORD PROCESSING PROGRAMS, OPERAT	ING SYSTEM/2
IBM DisplayWrite 4/2 Series for 0	PERATING SYSTEM/2
1121 A DisplayWrite 4/2 (3.5in Warranted, Central Serv 1122 A DisplayWrite 4/2 (5.25in	ice for 90 days (1Q88) 495
Warranted, Central Serv 0663 A ADDITIONAL LICENSE, Dis	ice for 90 days (1Q88) 495

As of April 6, 1987

MODEL/FC VPA	DESCRIPTION	PRICE
0665 C DOCUMEN	TATION ONLY, DisplayWrite 4/2	70
1124 B UPGRADE	, DisplayWrite 4 to DisplayWrite 4/2	
(3.5in)	(through ??)	125
1123 B UPGRADE	, DisplayWrite 4 to DisplayWrite 4/2	
(5.25in	(through ??)	125
0664 B ADDITIO	NAL LICENSE of UPGRADE, DisplayWrite 4 to)
Display	Write/2	100

DESCRIPTION

PRICE

DESCRIPTION

PRICE

IBM PERSONAL SYSTEM/2 MODEL 30 AND PERSONAL COMPUTER PROCESSORS AND FEATURES

PC SUPPORT PUBLICATIONS

2510 a Guide to Operations Manual - IBM PC (order via PCTB)

50

PROCESSORS - PC/XT VERSIONS

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

5160-268 a IBM PC/XT System Unit (256KB) w/enhanced keyboard, and one Half-high Diskette drive 1395 5160-278 a IBM PC/XT System Unit (256KB) w/enhanced keyboard, and two Half-high Diskette drives 1545 5160-089 a IBM PC/XT System Unit (640KB) w/enhanced keyboard, one 20MB Fixed Disk, one Half-high Diskette drive, and ASYNC Comm adapter 2660

PC/XT SUPPORT PUBLICATIONS

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
OF11 - Cuilly to Occupations Manual TDM DO/VT (contract	
2511 a Guide to Operations Manual - IBM PC/XT (prior	
models) (order via PCTB)	50

PROCESSORS - PC/XT 286 VERSIONS

missing? see next pg

PROCESSORS - PERSONAL SYSTEM/2 MODEL 30

The Personal System/2 Model 30 supports many PC and PC/XT adapters.

MODEL/FC VPA	DESCRIPTION	PRICE
	Personal System/2 system units require a Personal System/2 analog display.	
C t	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	
8530 - 021 a F	Adapter Personal System/2 Model 30 (640KB) w/ 8MHz 8086 CPU, Enhanced Keyboard, Keylock, Clock/Calendar, 3.5in 720KB dette, 20MB Fixed Disk, and integrated	1695
	display, DASD, serial/parallel, pointing device adapter	2295
SUPPORT PUBLI	ICATIONS - PERSONAL SYSTEM/2 MODEL 30	
G (0) 0 0 0 0 T		
	Personal System/2 Model 30 Setup Instructions Personal System/2 Model 30 Guide to Operations	3 45
	Personal System/2 Model 30 Technical Reference	73
	Manual	75
	Technical Reference Manual Supplement, 8530 Fixed Disk Drive	6
	Personal System/2 Model 30 Hardware Maintenance Service	30
	Personal System/2 Model 30 Hardware Maintenance	
5162-286 a l	Service Reference Supplement IBM PC/XT 286 System Unit (640KB) w/ 6MHz 80286 CPU, Serial/Parallel Adapter, Enhanced Keyboard,	10
(Clock/Calendar, 20MB Fixed Disk, High-Capacity	
	Diskette Drive and Adapter Battery, PC/XT 286 Clock	2810 8.95
	The PC/XT 286 also supports the 720KB 3.5in Diskette Drive (FC 0357) of the PC/AT	
8 3	High Capacity Diskette Drive (1.2MB), PC/XT 286 360KB 5.25in Diskette Drive, PC/XT 286	275 225
PC/XT 286 SUP	PPORT PUBLICATIONS	
3210	IBM PC/XT 286 Guide to Operations (order via PCTB) Technical Reference Manual - PC/XT 286 (order via	65
1	PCTB)	50

DESCRIPTION

PRICE

PROCESSORS AND OPTIONS - PC/AT VERSIONS

5170-068 a	IBM PC/AT System Unit (256KB) w/ 6MHz 80286 CPU,	
	PC/AT Keyboard, Keylock, Clock/Calendar, one	
	High-Capacity Diskette Drive and Adapter	3395
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	4595
5170-339 á	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	4595

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 91.

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 256KB of memory.

5271-002	а	IBM 3270-PC (256KB) w/3270-PC Keyboard and one	
		Dual-Sided Diskette Drive (Discount Group A2) (W/D	
		7/2/87)	3620
5271-004	а	IBM 3270-PC (384KB) w/3270-PC Keyboard and two	
		Dual-Sided Diskette Drives, Printer Adapter	
		(Discount Group A2) (W/D 7/2/87)	4075
5271-006	а	IBM 3270-PC (384KB) w/3270-PC Keyboard and one	
		Dual-Sided Diskette Drive, one 10MB Disk Drive,	
		Printer Adapter (Discount Group A2) (W/D 7/2/87)	4575

DESCRIPTION

PRICE

The following system units are based on a planar board (motherboard) capable of holding up to 640KB of memory 5271-030 a IBM 3270-PC (640KB) w/3270-PC Keyboard and one Half-Height Diskette Drive, Printer Adapter (Discount Group A2) (W/D 7/2/87) 3860 5271-P30 a As model 030, but with Enhanced Keyboard (Discount Group A2) (W/D 7/2/87) 3860 5271-031 a IBM 3270-PC (256KB + XMA) w/3270-PC Keyboard and one Half-Height Diskette Drive, Printer Adapter (Discount Group A2) (W/D 7/2/87) 4870 5271-P31 a As model 031, but with Enhanced Keyboard (Discount Group A2) (W/D 7/2/87) 4870 5271-050 a IBM 3270-PC (640KB) w/3270-PC Keyboard and two Half-Height Diskette Drives, Printer Adapter (Discount Group A2) (W/D 7/2/87) 4010 5271-P50 a As model 050, but with Enhanced Keyboard (Discount Group A2) (W/D 7/2/87) 4010 5271-051 a IBM 3270-PC (256KB + XMA) w/3270-PC Keyboard and two Half-Height Diskette Drives, Printer Adapter (Discount Group A2) (W/D 7/2/87) 5020 5271-P51 a As model 051, but with Enhanced Keyboard (Discount Group A2) (W/D 7/2/87) 5020 5271-070 a IBM 3270-PC (640KB) w/3270-PC Keyboard and one Half-Height Diskette Drive, 20MB Fixed Disk, Printer Adapter (Discount Group A2) (W/D 7/2/87) 4200 5271-P70 a IBM 3270-PC (640KB) w/Enhanced Keyboard and one Half-Height Diskette Drive, 20MB Fixed Disk, Printer Adapter (Discount Group A2) 4200 5271-071 a IBM 3270-PC (256KB + XMA) w/3270-PC Keyboard and one Half-Height Diskette Drive, 20MB Fixed Disk, Printer Adapter (Discount Group A2) (W/D 7/2/87) 5210 5271-P71 a IBM 3270-PC (256KB + XMA) w/Enhanced Keyboard and one Half-Height Diskette Drive, 20MB Fixed Disk, Printer Adapter (Discount Group A2) 5210

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

5730 a 3270-PC Keyboard (replacement if ordered separate)	295
5790 a Programmed Symbols Adapter (Discount Group A2) for	
5271	800
4910 a All Points Addressable Adapter for 5271 (Discount	
Group A2)	550
4505 a Printer/Memory Adapter w/128KB Memory (Discount	
Group A2)	305
4500 a 256KB Memory Adapter (installs on FC4505, Discount	
Group A2)	290

MODEL/FC VP	A DESCRIPTION	PRICE
3910 a	IBM 2MB Expanded Memory Adapter (XMA) for 5271, 5273, supported by 3270 Workstation Program as XMA, EMS, and VDISK, incl. printer adapter	1295
3350 a	Expanded Memory Adapter (XMA, 1MB + Printer Adapter, Discount Group A2, part numbers 59X9973 and 8649447	1230
3360 a	Expanded Memory 1MB Module Kit (1MB additional, mounts on FC3350, Discount Group A2)	365
	RPQ to attach 5271 to 4701 Color Display for 3270-PC (14in Diagonal) (8 color, 25 line x 80 character, 720H x 350V resolution, .25 Megapel, 9 x14 character cell)	N/C
	(Discount Group B2) The 5271 also supports the 5151 PC Monochrome Display as an as an alternative to the 5272 Color Display.	995

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 91.

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.

5273-020 a IBM 3270-PC/AT (6MHz, 512KB) w/3270-PC Keyboard and one High-Capacity Diskette Drive, Serial/Parallel Adapter (Discount Group A2) (W/D 7/2/87) 5745

MODEL/FC VP	A DESCRIPTION	PRICE
5273 - 041 a	IBM 3270-PC/AT (6MHz, 640KB) w/3270-PC Keyboard and two High-Capacity Diskette Drives, Serial/Parallel Adapter (Discount Group A2) (W/D 7/2/87)	6370
5273 - 042 a	Same as model 41 plus Extended Graphics Adapter (Discount Group A2) (W/D 7/2/87)	6920
5273-061 a	IBM 3270-PC/AT (6MHz, 640KB) w/3270-PC Keyboard and one High-Capacity Diskette Drive, 20MB Disk Drive, Serial/Parallel Adapter (Discount Group A2)	3 , 2 ,
5273-062 a	(W/D 7/2/87) Same as model 61 plus Extended Graphics (Discount Group A2) (W/D 7/2/87) Adapter	6695 7245
5273-070 a	IBM 3270-PC/AT (8MHz, 640KB) w/3270-PC Keyboard and one High-Capacity Diskette Drive, 30MB Disk Drive, Serial/Parallel Adapter (Discount Group A2) (W/D 7/2/87)	6440
5273 - P70 a	IBM 3270-PC/AT (8MHz, 640KB) w/Enhanced Keyboard and one High-Capacity Diskette Drive, 30MB Disk Drive, Serial/Parallel Adapter (Discount Group A2)	6440
5273-071 a	IBM 3270-PC/AT (8MHz, 256KB + XMA) w/3270-PC Keyboard and one High-Capacity Diskette Drive,	
5273 - P71 a	30MB Disk Drive, (Discount Group A2) (W/D 7/2/87) IBM 3270-PC/AT (8MHz, 256KB + XMA) w/Enhanced Keyboard and one High-Capacity Diskette Drive,	7170
	30MB Disk Drive, (Discount Group A2) For Expanded Memory Adapter (XMA) see also FC 3910, the IBM 2M Expanded Memory Adapter.	7170
3355 a	Expanded Memory Adapter (XMA, 1MB + printer adapter, Discount Group A2, part numbers 59X9962 and 8649447)	1230
3360 a	Expanded Memory 1MB Module Kit (1MB additional, mounts on FC3355, Discount Group A2)	365
	Ordering PS features: Order #4912 if a PS feature has previously been installed in the system unit, otherwise order #4911.	
4911 a	Extended Graphics Adapter (Short connectors) (Standard on models 42 and 62), for PC graphics 720h x 350v or 640h x 200v x 2 color, also 360h x	
4912 a	350v or 320h x 200v x 4 color (Discount Group A2) Extended Graphics Adapter (Long connectors) (Standard on models 42 and 62) for PC graphics, 720h x 350v or 640h x 200v x 2 color, also 360h x	550
	350v or 320h x 200v x 4 color (Discount Group A2) Order #5792 if an XGA feature has previously been installed in the system unit, or an XGA feature is	550
	concurrently ordered, otherwise order #5791.	

DESCRIPTION

PRICE

250

Whichever feature is chosen, if it is ordered separately for field setup, order under 5273-ZZZ.

5791 a Programmed Symbols (PS) Adapter (Short connectors)
for host graphics, six 190-symbol sets (Discount
Group A2)

5792 a Programmed Symbols (PS) Adapter (Long connectors)
for host graphics, six 190-symbol sets (Discount
Group A2)

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

9600 Graphics Interface Control Program (separately)

Warranted, Central Service for 90 days or to 6/87

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

PROCESSORS - 3270-PC PLASMA DISPLAY VERSIONS

For associated software, see "Coaxial Communication (3270-PC Family)" on page 91.

Requires 3270-PC Control Program Version 1.2.1. These models may also use FC5730, 4500, and 4505.

5271-024 a IBM 3270-PC (384KB) w/3270-PC Keyboard and two
Dual-Sided Diskette Drives, Printer Adapter
(Discount Group A2) (W/D 7/2/87)
5415

DESCRIPTION

PRICE

5271-026 a IBM 3270-PC (384KB) w/3270-PC Keyboard and one Dual-Sided Diskette Drive, one 10MB Disk Drive, Printer Adapter (Discount Group A2) (W/D 7/2/87)

5915

See 'PC Displays and Adapters' for the 3295 Display.

PROCESSORS - 3270-PC / G AND GX VERSIONS

For associated software, see "Coaxial Communication (3270-PC Family)" on page 91.

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.

5373-160 a	IBM 3270-PC/AT /G/GX (6MHz, 512KB)	
	w/Display/Mouse/Tablet Adapter, Serial/Parallel	
	Adapter, one High-Capacity Diskette Drive, one	
5373-A60. a	20MB Disk Drive, 3270-PC Keyboard	5535 5535
	Same as Model 160 except APL Keyboard IBM 3270-PC/AT /G/GX (6MHz, 640KB)	2222
3373-101 a	w/Display/Mouse/Tablet Adapter, Serial/Parallel	
	Adapter, one High-Capacity Diskette Drive, one	
	20MB Disk Drive, 3278/79 Emulation Adapter,	
	3270-PC Keyboard	6480
5373-A61 a	Same as Model 161 except APL Keyboard	6480
5373 - 162 a	IBM 3270-PC/AT /G/GX (6MHz,512KB + 512KB) w/80287,	
	Display/Mouse/Tablet Adapter, Serial/Parallel	
	Adapter, one High-Capacity Diskette Drive, one	
	20MB Disk Drive, 3278/79 Emulation Adapter,	6000
5373-162 0	3270-PC Keyboard Same as Model 162 except APL Keyboard	6800 6800
3373-A02 a	Same as Model 102 except Art Reyboard	0000
5373 - A29 a	IBM 3270-PC/AT/G (8MHz, 512KB + 512/2MB expansion)	
	w/Display/Mouse/Tablet Adapter, Serial/Parallel	
*	Adapter, 80287, High-Capacity Diskette Drive, 30MB	
	Disk Drive, 3270-PC APL Keyboard	6810
5373-A39 a	IBM 3270-PC/AT/GX (8MHz, 512KB + 512/2MB	
	expansion) w/Display/Mouse/Tablet Adapter,	
	Serial/Parallel Adapter, 80287, High-Capacity	
	Diskette Drive, 30MB Disk Drive, 3270-PC APL Keyboard	6810
	reapport	0010

MODEL/FC	VPA	DESCRIPTION	PRICE
		IBM 3270-PC/AT/G (8MHz, 512KB + 512/2MB expansion) w/Display/Mouse/Tablet Adapter, Serial/Parallel Adapter, 80287, High-Capacity Diskette Drive, 30MB Disk Drive, Enhanced Keyboard IBM 3270-PC/AT/GX (8MHz, 512KB + 512/2MB expansion) w/Display/Mouse/Tablet Adapter, Serial/Parallel Adapter, 80287, High-Capacity Diskette Drive, 30MB Disk Drive, Enhanced Keyboard	6810 6810
5731	а	Standard 3270-PC Keyboard (incl.overlay) APL 3270-PC Keyboard (incl. overlay) IEEE-488 Adapter and Cable for 5371 models (Cable is PN 6450601, incl.in FC 3907)	295 295 545
		(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	g	IBM Optical Mouse	340
5083-002	-	Graphics Tablet	650
1511	a	Cursor (Crosshair Mouse or 'Puck')	175
		Stylus	100
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
7011	. а	3270-PC/AT/G Option Kit (Upgrade 5170-319/339 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
7012	! а	/ tablet cable, keyboard cable, VDI drivers) 3270-PC/AT/GX Option Kit (Upgrade 5170-319/339 to /GX, incl. display / mouse / tablet adapter, mouse / tablet cable, keyboard cable, VDI drivers)	770
		, , , , , , , , , , , , , , , , , , , ,	

IBM 3270-PC/G /GX SUPPORT PUBLICATIONS

GA33-3157 Introducing the IBM-3270/PC/G and /GX Ranges of Workstations N/C

MODEL/FC VE	A DESCRIPTION	PRICE
GA33-3158	3270-DC/C and /CV Panage of Workstations, Planning	
GA33-3136	3270-PC/G and /GX Ranges of Workstations: Planning Guide	N/C
3112 1	3270-PC/AT/G Guide to Operations and Maintenance	11,0
	Information Manual (order on 5278-002)	N/C
3113 k	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
PC/G DISPLA	Y OPTIONS	
TOTO DIGITAL		
	Display Attachment Unit	2530
7003 á	Specify attachment to 5371 (Guide to Operations,	
0110 1	Maintenance Information, same as FC above)	N/C
3112 k	Specify attachment to 5373 (Guide to Operations,	NI/C
5270-002 1	Maintenance Information, same as FC above)	N/C 2530
	Display Attachment Unit for PC/AT /G Specify attachment to 5373 (Guide to Operations,	2330
J112. k	Maintenance Information, same as FC above)	N/C
5279-001 H	o 14in Display (8 color, 80 character x 32-49 line,	11,0
	720Hx512V resolution, .37 Megapel, host character	
	cell 9x16 or 9x10, or 8x16 in PC session)	960
7675 8	Stand with Tilt, Swivel, Height adjust	200
7676 a	Stand with Tilt, Swivel adjust	N/C
PC/GX DISPL	AV OPTIONS	
r C/ OX DISFL	AT OF ITOMS	
5378-C01 l	Display Attachment Unit - Color	5815
	Specify attachment to 5371 (Guide to Operations,	
	Maintenance Information, same as FC above)	N/C
3113 1	Specify attachment to 5373 (Guide to Operations,	
	Maintenance Information, same as FC above)	N/C
	Display Attachment Unit - Monochrome	5465
/004 a	Specify attachment to 5371 (Guide to Operations,	NT / C
2112 1	Maintenance Information, same as FC above)	N/C
3113 1	Specify attachment to 5373 (Guide to Operations, Maintenance Information, same as FC above)	N/C
5335	5378 Microcode Upgrade Kit for use with 3270-PC/AT	N/C
,	(5373)	N/C
5379 - C01 1	o 19in Display - Color (16 color, 80 character x 50	11, 0
	line, 1024Hx1024V resolution, 1.00 Megapel, 12x20	
	character cell)	2520
5379-M01	o 19in Display - Monochrome (2 color, 80 character x	
	50 line, 1024Hx1024V resolution, 1.00 Megapel,	
	12x20 character cell)	1925

DESCRIPTION

PRICE

PROCESSORS - PC/XT/370 AND PC/AT/370 VERSIONS

For associated software, see "VM/PC" on page 141.

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	а	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	7290
5170-939	а	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	7290
6115	а	IBM PC/AT S/370 Option Kit to upgrade existing	
		PC/AT, order 3278/79 adapter separately	2100

PC/AT/370 SUPPORT PUBLICATIONS

2527	а	Technical Reference Manual - IBM PC/AT/370	28
2529	а	Hardware Maintenance & Service (Manual and	
		Advanced Diagnostic Diskette) for the IBM	
		PC/AT/370	60
2980	а	Hardware Maintenance & Service for the 3278/79	
		Emulation Adapter in the IBM PC/AT/370	22

PROCESSORS - SERIES/1 VERSIONS

For associated software, see "Series/1 PC Operating Systems" on page 140.
5170-496 a Series/1 PC/AT System Unit (8MHz) w/std. AT
keyboard, 20MB fixed disk, 1MB diskette drive, 1MB
memory, I/O controller, 6-port host/terminal
attach card, serial/parallel attachment
10695
0401 a 3101 Display Cable, 15m
100
3629 a Six-Port Terminal/Host Adapter for 4 RS-422 ports,
2 RS-232 ports for async/BSC to 9600 bps
750

Also supports the following 5170 options in Series/1 mode:

- 0205 20MB Fixed Disk Drive
- 0206 High Capacity Diskette Drive
- 0207 Dual Sided Diskette Drive
- 0210 30MB Fixed Disk Drive
- 0215 Serial/Parallel Adapter

DESCRIPTION

PRICE

- 0216 Display Stand
- 0217 Serial Adapter Cable
- 0218 Floor Standing Enclosure
- 0242 Serial Adapter Connecter
- 1003 64KB Memory Module Kit

F/C 1003 is for Series/1 processor storage upgrades. Must be ordered in 128KB increments.

- 1204 Binary Synchronous Communication Adapter
- 1205 SDLC Communication Adapter
- 4900 Monochrome Display and Printer Adapter
- 4910 Color Graphics Monitor Adapter

SERIES/1 PC SUPPORT PUBLICATIONS

2241 a Guide to Operations - S/1 PC/AT	49.50
2242 a Hardware Maintenance and Service Manual - S/1	
PC/AT	295
2243 a Technical Reference Manual - S/1 PC/AT	30
2491 a Installation and Setup Guide - S/1 PC/AT	29.50

PROCESSORS - 4680 PC VERSION

For a special promotional offering on the following item, see "Store Express Trial Program" on page 1.

For associated software, see "4680 Operating System for 5170 Point-of-Sale" on page 144.

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	5670
4683-001	Point-of-Sale Terminal (attach to Store Loop	
	driven by 5170 Store Controller)	2780
4683-002	Point-of-Sale Terminal (attach to 4683-001)	1265
	Specify one of the following lock inserts for each printer (FC 3380), cash drawer (FC 3360, 3361), or keyboard (FC 3320).	
9201 9202	Lock insert, randomly selected, with 2 keys (FC's 9292-9221, PN's 4783902-4783921) Lock	N/C
	insert, specific, with 2 keys	N/C
9223	Lock insert, non-operating	N/C
3339	Shopper Display, 8-Position Numeric (9/87)	205

MODEL/FC VP	A DESCRIPTION	PRICE
3340 3342	Operator Display, 2 Rows of 20 Characters (9/87) Display Extension Cable (for use when FC3339 or	275
	FC3340 are separated from 4683 base) (9/87)	47
3343	40-Character Alphanumeric Display	. 360
3344	Alphanumeric Display Cable, Integrated	11
3345	Alphanumeric Display Cable, Distributed	42
3354	300mm (12in) Monochrome Display	290
3355	Cable for 300mm Display	65
3356	Tilt, Swivel Pedestal for 300mm Display	20
6316710	127mm (5in) Monochrome Display	280
6316852	Cable for 127mm Display, Distributed	65
3352	346mm (14in) Color Display, 480 or 1920 Characters	
	(9/87)	680
3353	346mm (14in) Color Display Cable (9/87)	75
3359	346mm (14in) Color Display Pedestal (9/87)	20
3320	50-key Modifiable Keyboard	264
3322	84-key Alphanumeric Keyboard, Modifiable, w/Mgr	
	Keylock (req. FC3325 or FC3326) (9/87)	490
3325	Keyboard Cable, Integrated	14
3326	Keyboard Cable, Distributed	38
3330	Keybutton Kit, Retail Format	5
3357	Line Cord, 9-foot	10
3358	Line Cord, 6-food	10
3360	Cash Drawer, Fixed Till	205
3361	Cash Drawer, Adjustable Till	209
3364	Cash Drawer Cable, Integrated	10
3365	Cash Drawer Cable, Distributed	27
3380	Printer	724
3384	Printer Cable, Integrated	31
3385	Printer Cable, Distributed	69
4000	Feature Expansion A	475
4001	Feature Expansion B	315
4002	Feature Expansion C	524
4003	Feature Expansion D	58 6
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
3466	Non-IBM Special Attachment Cable	40
4026	Non-IBM Scale Cable	76
4028	Non-IBM Coin Dispenser Cable	55
8002	Second Store Loop Adapter	835
8003	Store Loop Cable	41

MODEL/FC VP.	A DESCRIPTION	PRICE
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

PROCESSORS - 4700 PC VERSION

Requires 4700 PC Application Services, FC 4406.

Supports a number of 4700 printers, keyboards, and magnetics devices.

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
4700 PC Hardware Maintenance and Service Manual	??
a FCS Input Option, non-PC/AT (attach 4700	
keyboards, mag. stripe readers, remote IPL	
requires 3278/79 emulation adapter)	650
a FCS Input Option, PC/AT (attach 4700 keyboards,	
mag. stripe readers, remote IPL requires 3278/79	
emulation adapter)	650
	625
• • • • • • • • • • • • • • • • • • • •	
	625
	550
kevs. encryption interface program)	550
	Input Option, one Dual-Sided Diskette Drive (no Async adapter) 4700 PC Hardware Maintenance and Service Manual a FCS Input Option, non-PC/AT (attach 4700 keyboards, mag. stripe readers, remote IPL requires 3278/79 emulation adapter) a FCS Input Option, PC/AT (attach 4700 keyboards, mag. stripe readers, remote IPL requires 3278/79 emulation adapter) a FCS Output Option, non-PC/AT (attach 4700 printers, re-direct PC output to 4700) a FCS Output Option, PC/AT (attach 4700 printers, re-direct PC output to 4700) a FCS Security Option, non-PC/AT (Set master and session keys, encryption interface program) a FCS Security Option, PC/AT (Set master and session

Also supports the following 5160 and 5170 options:

MODEL/FC VPA

DESCRIPTION

PRICE

- IBM 4201 Proprinter
- IBM 5151 Monochrome Display
- 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)
- 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)
- 0217 Serial Adapter Cable (PC/AT)
- 0218 Floor Standing Enclosure (PC/AT)
- 0220 Prototype Adapter (PC/AT)
- 0242 Serial Adapter Connector (PC/AT)
- 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
- 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)

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

Government price

5035

MODEL/FC VPA DESCRIPTION	PRICE
The following TEMPEST systems are composystem unit with a model 4451 TEMPEST M Display.	
4455 TEMPEST PC/XT System Unit/Display 'TPC2 w/TEMPESTedkeyboard, monochrome display adapter, Dual-Sided Diskette drive, and	/printer
Disk drive Commercial price Government price	7640 6112
4455 TEMPEST PC/XT System Unit/Display 'TPC2 w/TEMPESTed keyboard, monochrome displa adapter, Dual-Sided Diskette drive, and Removable Disk drives	y/printer
Commercial price	9515
Government price 100A496 Additional 5MB Disk Cartridge	7612
Commercial price Government price	243 136
4455 TEMPEST PC/XT System Unit/Display 'TPC2 w/TEMPESTed keyboard, monochrome displa adapter, two Dual-Sided Diskette drives	y/printer
Commercial price Government price	7340 5872
The following TEMPEST systems are composystem unit with a TEMPEST Color Displa	
4455 TEMPEST PC/XT System Unit/Display 'TPC2 w/TEMPESTed keyboard, color display ada	
printer adapter, Dual-Sided Diskette dr 10MB Fixed Disk drive	ive, and
Commercial price Government price	8978 7182
4455 TEMPEST PC/XT System Unit/Display TPC2 w/TEMPESTed keyboard, color display ada printer adapter, Dual-Sided Diskette dr 5MB Removable Disk drives	pter,
Commercial price	10853
Government price 100A496 Additional 5MB Disk Cartridge	8682
Commercial price Government price	243 136
4455 TEMPEST PC/XT System Unit/Display 'TPC2 w/TEMPESTed keyboard, color display ada	pter,
printer adapter, two Dual-Sided Diskett Commercial price Government price	e drives 8678 6942

MODEL/FC VP	A DESCRIPTION	PRICE
	The following are commercial prices for additional TEMPESTed features for the TPC2 models.	
	256KB Memory Expansion 8087 Co-Processor 3278/79 Emulation Adapter Async Communications Adapter SDLC Communications Adapter 2nd Parallel Printer Adapter	476 223 1825 195 314 253
	The following are government prices for additional TEMPESTed features for the TPC2 models.	
	256KB Memory Expansion 8087 Co-Processor 3278/79 Emulation Adapter Async Communications Adapter SDLC Communications Adapter 2nd Parallel Printer Adapter	333 156 1460 156 251 202
	The following TEMPEST systems are composed of a system unit with a TEMPESTed 5272 Color Display. They are NOT AVAILABLE to non-GSA customers.	
4456	TEMPEST 3270-PC System Unit/Display 'TPC3' (640KB) w/TEMPESTed keyboard, color display adapter, printer adapter, Dual-Sided Diskette drive, and 2 5MB Removable Disk drives	
100A496	Government price Additional 5MB Disk Cartridge	11195
4459	Government price TEMPEST PC/AT System Unit/Display 'TPC4-1A' (512KB) w/TEMPESTed keyboard, EGA, 4451 Mono Display, 360KB Diskette Drive	136
	Commercial price Government price	9591 7673
4459	TEMPEST PC/AT System Unit/Display 'TPC4-1B' (512KB) w/TEMPESTed keyboard, EGA, 4451 Mono Display, 1.2MB Diskette Drive Commercial price	9633
	Government price	7706
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 Government price	9295 7436
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 Government price	9295 7436

MODEL/FC VI	PA DESCRIPTION	PRICE
4459	TEMPEST PC/AT System Unit/Display 'TPC4-3A' (512KB) w/TEMPESTed keyboard, EGA, 4461 Enhanced Color Display, 360KB Diskette Drive	
	Commercial price	11466
	Government price	9173
4459	TEMPEST PC/AT System Unit/Display 'TPC4-3B' (512KB) w/TEMPESTed keyboard, EGA, 4461 Enhanced	
	Color Display, 1.2MB Diskette Drive	11508
	Commercial price Government price	9206
	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 OptionGraphics	199
	Memory ModuleGraphics	259
	80287 Co-Processor	375
	The following are government prices for additional TEMPESTed features for the TPC4 models.	
	20MB Fixed Disk Drive	712
	1-10MB Internal Removable Cartridge Disk Drive	1670
	2-10MB Internal Removable Cartridge Disk Drives	2880
	Serial/Parallel I/O Adapter	387
	128KB RAM Expansion	227
	512KB RAM Expansion (2 max.)	192
	Militarized Advanced Communication Controller	
	(AdCom 2-M)	1275
	Memory Expansion OptionGraphics	129
	Memory ModuleGraphics	168
	80287 Co-Processor	244
	The following TEMPESTed products are available to	
	governmental and commercial customers. The system units DO NOT include a display.	
5171-168	a IBM PC/AT System Unit TEMPESTed (512KB) w/ 8MHz	
31,1 100	80286, Enhanced Keyboard, Clock/Calendar,	
	High-Capacity Diskette Drive, Disk Adapter,	
	Serial/Parallel Adapter	5995
5171-339	a IBM PC/AT System Unit TEMPESTed (512KB) w/ 8MHz	
	80286, Enhanced Keyboard, Clock/Calendar,	
	High-Capacity Diskette Drive, 30MB Fixed Disk and	
	Adapter, Serial/Parallel Adapter	7395

MODEL/FC VP	A DESCRIPTION	PRICE
3003 a	IBM Monochrome Display and Printer Adapter, TEMPESTed (Supports 5167)	950
5167-001 b	IBM Monochrome Display TEMPESTED (11.5in Diagonal)	
	(2 color, 80 character x 25 line, 720H x 350V	
	resolution, .25 Megapel, 9x14 character cell)	750
5169 - 002 f	Quietwriter Printer T Model 2 (Like Quietwriter	
	Model 2, adds TEMPEST certification, req. cable FC	
	3009) See TM 5201 for printer options	4950
3009 a	IBM Personal Printer Cable T (TEMPESTed cable for	
	parallel printers)	130

PROCESSORS - INDUSTRIAL VERSIONS

The IBM Industrial Computers and Displays are available on the IBM Industrial Computer Volume Procurement Amendment.

7531-041	IBM PC/AT System Unit (6MHz, 512KB) Hardened, w/Hardened Keyboard and one High-Capacity Diskette	
	drive	6145
7532-041	IBM PC/AT System Unit (6MHz, 512KB) Hardened, 19in	
	rack mountable, w/Hardened Keyboard and one	
	High-Capacity Diskette drive	6370
6019	20MB Fixed Disk Drive (Customer Setup)	1695
6045	20MB Fixed Disk Drive (Plant Installed)	1475
6038	High Capacity Diskette Drive	275
6039	Dual-Sided Diskette Drive	225
6001	Combination Adapter Cable	75
6020	Combination Adapter II, Async adapter, parallel	
	printer adapter, timer, thermal sensor	450
6023	Rack Mounting Slides (7532 only)	47
6024	Keyboard Mounting Kit (7532 only)	180
6025	Display Mounting Kit (7532 only)	350
6040	128KB Memory Board (Attaches to Combination	
	Adapter II)	415
6044	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
- 0213 PC Network Adapter (and associated cabling components)
- 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)

MODEL/FC VPA

DESCRIPTION

PRICE

N/C

N/C

1503 - Ge	eneral Purpose Interface Bus Adapter Plor/Graphics Monitor Adapter	allel)
7552-040	IBM PC/AT System Unit (10MHz, 512KB) Hardened, for use without keyboard or display via Remote	
7552-140	Terminal Interface IBM PC/AT System Unit (10MHz, 512KB) Hardened,	6770
	10MB fixed disk for use without keyboard or	
	display via Remote Terminal Interface	9370
6070	80287 Math Co-Processor for 7552	530
6072	Battery for 7552 (Power to system for 10 sec. of operation during power failure, mutually exclusive	
	with FC6073)	180
6073	External Voltage Module for 7552 (Mutually	
	exclusive with FC6072)	330
6074	Memory Adapter for 7552 (512KB included, accepts	
	up to 3MB via FC6075)	1100
6075	512KB Memory Expansion for 7552	250
6076	Card Shroud for 7552 (Spare)	110
6077	IBM PC Feature Adapter for 7552 (One required for each PC feature card to be installed, mates PC	
	feature to card shroud)	195
6080	Disk/Diskette Adapter Module for 7552 (Supports up	
	to 2 10MB Fixed Disks and 1 720KB 3.5in Diskette,	
	standard in 7552-140)	1400
6081	Diskette Drive for 7552 (720KB, 3.5in)	375
6082	10MB Fixed Disk Drive for 7552 (Maximum 2, 1	
	Standard in 7552-140)	1330
6094	Prototype Card for 7552	245
6095	Memory Adapter and Card Shroud for 7552 (Combines	
	FC6074, FC6076)	1210
6096	Filters for 7552	35
6097	Keyboard Rack Mount Hardware for 7552	680
6098	Floor Mount Kit for 7552	600
6078	Remote Terminal Interface for 7552 (Via program	
	5601-053, allows remote Industrial Computer to	
	provide terminal and program load functions thru	F00
(001	keyboard port)	500
6221	SPECIFY CODE, FC6078 installed in a 5531	N/C

1502 - Data Acquisition and Control Adapter (and distribution panel)

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

SPECIFY CODE, FC6078 installed in a 7531 or 7532

- 0213 PC Network Adapter (and associated cabling components)
- 0215 Serial/Parallel Adapter (and associated cable and connector)

SPECIFY CODE, FC6078 installed in a 7552

- 1200 Enhanced Graphics Adapter
- 1201 Graphics Memory Expansion Card
- 1203 Graphics Memory Module
- 1204 Binary Synchronous Communications Adapter

6222

6223

MODEL/FC VPA

DESCRIPTION

PRICE

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

Also supports the following PC options:

- 0213 PC Network Adapter (and associated cabling components)
- 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	Industrial Color Display	850
7534-001	Enhanced Industrial Color Display (Ruggedized	
•	version of 5154, sep. VPA, 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

IBM INDUSTRIAL COMPUTER SUPPORT PUBLICATIONS

6046	Guide to Operations - Industrial PC/AT	50
6036	Guide to Operations - Industrial PC/AT (Rack	
	mount)	50
6032	Technical Reference Manual - Industrial PC/AT	65
6035	Technical Reference Options and Adapters -	
	Industrial PC/AT	295
6047	Installation and Setup - Industrial PC/AT	30
6037	Installation and Setup - Industrial PC/AT (Rack	
	mount)	30
6033	Hardware Maintenance & Service (Manual and	
	Advanced Diagnostic Diskette) for the IBM	
	Industrial PC/AT	295
6089	Installation and Operations - 7552 Industrial	
	Computer	150
6086	Hardware Maintenance & Service (Manual and	200
	Advanced Diagnostic Diskette) for the IBM 7552	
	Industrial Computer	245
	Industrial compacti	
6006	Guide to Operations - Industrial PC/XT	55
6003	Technical Reference Manual - Industrial PC/XT	75
6035	Technical Reference Options and Adapters	295
6029	Installation and Setup - Industrial PC/XT	30
6004	Hardware Maintenance & Service (Manual and	
0004	Advanced Diagnostic Diskette) for the IBM	
	Industrial PC	155
	and the same of th	

PROCESSORS - PC CONVERTIBLE

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

For a special promotional offering on the following item, see "Special Promotion for the IBM 5140 PC Convertible" on page 1.

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. 1695

For a special promotional offering on the following item, see "Special Promotion for the IBM 5140 PC Convertible" on page 1.

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. 1675 MODEL/FC VPA DESCRIPTION

In addition to the options listed below, the PC Convertible supports:

•	4201 -	TRM	Proprinter
-	42UI -	TDII	TIODITHCEL

- 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	а	Convertibles shipped after January 26, 1987)	250
4005	а	256KB Memory Card (maximum 2 installable) 128KB Memory Card (maximum 2 installable)	345 160
4010	а	Printer, attaches to back of system unit, 40CPS serial thermal or thermal transfer, sheet or roll paper	295
4055	а	Printer Cable, 22in, allows detached connection with FC4010	45
4015	а	Serial/Parallel Adapter, attaches to back of system unit	80
4026	а	Enhanced Internal Modem, 300 and 1200 baud, 'AT' and IBM command set, mounts in system unit	450
4025	а	Internal Modem, 300 and 1200 baud, IBM command set, mounts in system unit	225
4020	a	CRT Display Adapter, attaches to back of system unit, connects 4683, 5144, 5145, or 5153, or TV	0 = =
5144-001	b	set (AC only) PC Convertible Monochrome Display (9in diagonal, 2 color, 640H x 200V resolution, 80 character x 25	255
5145-001	b	line, .13 megapel, 8x8 character cell, AC only) PC Convertible Color Display (13in diagonal, 320H	180
4040	_	x 200V resolution, .06 megapel, speaker, AC only)	400 495
59X9966		IBM PC Convertible Speech Adapter Speech Adapter Installation and Problem Determination Procedures, Guide to Writing BASIC	493
		Speech Programs	??
4060	а	Battery Charger (trickle charger, not for	
1065	_	concurrent operation)	25
		Automobile Power Adapter Carrying Case, Standard (soft-sided, accomodates system unit, attached printer, accessories,	25
4095	а	supplies) Carrying Case, Compact (soft-sided, system unit in	84
		main compartment, printer and accessories in expandable pocket)	44

PRICE

MODEL	

DESCRIPTION

PRICE

PC CONVERTIBLE SUPPORT PUBLICATIONS

4075	а	Guide to Operations Manual - IBM PC Convertible	
		(incl. Setup, Diagnostics, System Applications)	
		(order via PCTB)	65
4076	а	Guide to Operations Manual - IBM PC Convertible	
		(incl. Diagnostics only)	50
4080	а	Technical Reference Manual - IBM PC Convertible	
		(order via PCTB)	75
4082	а	Technical Reference Manual Update #2 for Enhanced	
		LCD, 256KB Memory Card, Enhanced Internal Modem	5.20
4085	а	Hardware Maintenance and Service Manual - IBM PC	
		Convertible (order via PCTB)	150
4088	а	Hardware Maintenance and Service Update #3 for	
		Enhanced LCD, 256KB Memory Card, Enhanced Internal	
		Modem	3.0

IBM PORTABLE PC SUPPORT PUBLICATIONS

PROCESSORS AND OPTIONS - PCJR

860-004	PCjr System Unit/Keyboard, 64KB, 2 Cartridge Slots, Transformer	362
860-067	PCjr System Unit/Keyboard, 128KB, 2 Cartridge Slots, Transformer, 360KB Diskette Drive	439
863-001	IBM PCjr Color Display (13in Diagonal) (16 color, 320H x 200V resolution)	359
0005	360KB PCjr Diskette Drive	170
0006	Power Expansion Attachment	99
0007	64KB Memory and Display Expansion	140
0008	PCjr Internal Modem	99
0009	PCjr Parallel Printer Attachment	99
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
0022	PCjr Adapter Cable for Cassette	10

MODEL/FC VPA	A DESCRIPTION	PRICE
0023	PCjr Carrying Case	25
0024	PCjr Speech Attachment	300
0026 0031	PCjr Adapter Cable for Serial Devices 128KB Memory Expansion Attachment	10 199
7520 b	Mouse Systems PCjr Mouse (on 1599-B01)	195
PCJR SUPPORT	Γ PUBLICATIONS	
2292	Guide to Operations Manual - IBM PCjr (order via PCTB)	21.25
2293	Technical Reference Manual - IBM PCjr (order via PCTB)	35
2294	Hardware Maintenance & Service for the IBM PCjr (order via PCTB)	88
PROCESSOR FI	EATURES	
1005 a	BIOS Update Kit, PC	30
1002 a	Math Co-Processor Option (8087 - 8088 chips), PC, PC/XT	230
5001 a	Math Co-Processor Option (8087 chip), Personal System/2 Model 30	310
0211 a	Math Co-Processor (80287 chip), PC/AT	375
3047	AST I/O Plus II Card (Serial Port, Clock) (special bid only)	185
3048	AST I/O-S Plus II Card (2 Serial Ports, Clock) (special bid only)	235
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

MODEL/FC VPA DESCRIPTION	PRICE
0215 a Serial/Parallel Adapter (9-pin Async + Printer), PC/AT, Noterequires either Serial Adapter Cable (FC 0217) or Serial Adapter Connector (FC 0242) to attach to RS-232 devices	150
1400 a Prototype Card, PC, PC/XT 0220 a Prototype Adapter, PC/AT	35 35
1300 a Game Control Adapter	45
IEMORY - PC AND PC/XT SYSTEM UNITS	
3905 a IBM 2MB Expanded Memory Adapter (XMA) for 5160, 5170, and 8530, supported by IBM 3270 Workstation Program as XMA, EMS, and VDISK, incl. printer adapter	1295
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 1003 a 64KB Memory Module Kit, PC, PC/XT	30 20
1013 a 64/256KB Memory Expansion Option, PC, PC/XT 1209 a IBM 256KB Memory Expansion Option (short card),	190
PC, PC/XT 3336 a 128KB Memory Module Kit (for installation on 640KB-class PC/XT system boards only)	150 38
3337 a 256KB Memory Module Kit (for installation on 640KB-class PC/XT system boards only)	75
7800 b AST ComboPlus Model MC-256 SPC (on 1596-A01) with Parallel Port, Serial Port, Clock/Calendar, 256K	
of memory 7802 b AST MegaPlus II Model MGII-256P (on 1597-A01) with Parallel Port, Serial Port, Clock/Calendar 256K of	695
memory expandable to 512K 7806 b AST SixPakPlus Model SPK-064 (on 1597-A01) with	745
Serial Port, Parallel Port, Clock/Calendar, 64K of memory, expandable to 384K 7809 b AST SixPakPlus Model SPK-192 (on 1597-A01) with	395
Serial Port, Parallel Port, Clock/Calendar, 192K of memory, expandable to 384K 7812 b AST SixPakPlus Model SPK-384 (on 1597-A01) with	595
Serial Port, Parallel Port, Clock/Calendar, 384K	895

	AST RAMpage! Expanded Memory Board (256KB)	3057
395	(special bid only)	
	AST RAMpage! Expanded Memory Board (512KB)	3058
495	(special bid only)	
	AST RAMpage! Expanded Memory Board (1MB) (special	3059
795	bid only)	
	AST RAMpage! Expanded Memory Board (2MB) (special	3060
1295	bid only)	
	AST RAMpage! I/O Expanded Memory Board (256KB)	3061
	Incl. Serial and Parallel Adapters (special bid	
545	only)	
	AST RAMpage! I/O Expanded Memory Board (512KB)	3062
	Incl. Serial and Parallel Adapters (special bid	
645	only)	
	AST RAMpage! I/O Expanded Memory Board (1MB) Incl.	3063
945	Serial and Parallel Adapters (special bid only)	
	AST RAMpage! I/O Expanded Memory Board (2MB) Incl.	3064
1445	Serial and Parallel Adapters (special bid only)	

MEMORY, PC/AT AND PC/XT286 SYSTEM UNITS

For Expanded Memory Adapter (XMA) see also FC 3905, the IBM 2MB Expanded Memory Adapter (not for PC/XT286)

The following cards are NOT for installation in other than PC/AT, PC/XT 286, or PC/AT-based system units.

0202	а	256KB Memory Module Kit, PC/AT	75
3338	а	128/640KB Memory Expansion Option, PC/AT (128KB at 512KB location, 512KB at 1MB location, XT/286 not	
		supported)	350
3343	а	512KB/2MB Memory Expansion Option, PC/AT (only	
		above 1MB, XT/286 is supported)	475
3339	а	512KB Memory Module Kit, PC/AT (for use with FC3338 and FC3343)	165
		165556 and 165545)	103
3395	а	IBM .5 to 3MB Memory Expansion Adapter,	
		multifunction, includes Serial/Parallel Adapter	
		function (with Guide to Operations), PC/AT (supports split addressing, XT/286 is supported)	595
3397	а	512KB Memory Module Kit (2-256KB modules, for use	
		with FC3395) PC/AT	165
3400	а	IBM .5 to 6MB Memory Expansion Adapter,	
		multifunction, includes Serial/Parallel Adapter	
		function (with Guide to Operations), PC/AT	749
		(supports split addressing, XT/286 is supported	/49

MODEL/FC VP	A DESCRIPTION	PRICE
	1MB Memory Module Kit (2-512KB modules, for use with FC 3400 or FC 3395) PC/AT	349
3404	Guide to Operations, .5 to 3MB Memory Expansion Adapter, and .5 to 6MB Memory Expansion Adapter, PC/AT	20
3408	Technical Reference Manual, .5 to 3MB Memory Expansion Adapter, and .5 to 6MB Memory Expansion Adapter, PC/AT	25
3406	Hardware Maintenance and Service, .5 to 3MB Memory Expansion Adapter, and .5 to 6MB Memory Expansion Adapter, PC/AT	50
7850 b	Tecmar Maestro-128K (on 1596-D01) with 128K Memory, Serial Port, Parallel Port, Security	
7851 b	Option, Software Tecmar Maestro-380K (on 1596-D01) with 380K Memory, Serial Port, Parallel Port, Security	589
7852 b	Option, Software Tecmar Maestro-640K (on 1596-D01) with 640K Memory, Serial Port, Parallel Port, Security	889
7853 b	Option, Software Tecmar Maestro-1664K (on 1596-D01) with 1664K	1189
7854 b	Memory, Serial Port, Parallel Port, Security Option, Software Tecmar Maestro-2560K (on 1596-D01) with 2560K	2876
3030	Memory, Serial Port, Parallel Port, Security Option, Software AST Advantage! 128 Multifunction Board (128KB,	4589
3031	Serial Port, Parallel Port) (special bid only) AST Advantage! 128-S Multifunction Board (128KB, 2 Serial Ports, Parallel Port) (special bid only)	595 645
3032 3033	AST Advantage! 512 Multifunction Board (512KB, Serial Port, Parallel Port) (special bid only) AST Advantage! 512-S Multifunction Board (512KB, 2	645
3034	Serial Ports, Parallel Port) (special bid only) AST Advantage! 1125 Multifunction Board (1125KB,	695
3035	Serial Port, Parallel Port) (special bid only) AST Advantage! 1125-S Multifunction Board (1125KB, 2 Serial Ports, Parallel Port) (special bid only)	945 995
3038 3039	AST Advantage! 3000 Multifunction Board (3MB, Serial Port, Parallel Port) (special bid only) AST Advantage! 3000-S Multifunction Board (3MB, 2	1945
3052	Serial Ports, Parallel Port) (special bid only) AST RAMvantage! Extended Memory Board (128KB)	1995
3053	(special bid only) AST RAMvantage! Extended Memory Board (512KB) (special bid only)	345 445
3054	AST RAMvantage! Extended Memory Board (1MB) (special bid only)	745
3056	AST RAMvantage! Extended Memory Board (3MB) (special bid only)	1545

MODEL/FC VPA DESCRIPTION

DIRECT-ACCESS STORAGE DEVICES

3780	а	Diskette Drive Adapter, PC, PC/XT	125
3325	а	5.25in Half-Height Dual-Sided Diskette Drive	
		(360KB), PC/XT	225
3258	а	3.5in Half-Height Dual-Sided Diskette Drive	
		(720KB), PC/XT	170
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.	
0750		Guide to Operations	395
8/50	a	Personal System/2 5.25in External Diskette Drive	
		Adapter/A for attaching 4869-1 to Personal	60
		System/2 Model 30 (5/87)	60
3326	а	20MB Fixed Disk, PC/XT	630
		20MB Fixed Disk Adapter, PC/XT	200
		, , , , , , , , , , , , , , , , , , , ,	
3363-A01	b	External Optical Disk Drive (200MB, removable	
		media, write once) (attaches to PC, PC/XT, PC/AT,	
		8530) (2Q87)	2950
		High Capacity (1.2MB) Diskette Drive, PC/AT	275
		Dual-sided Diskette Drive (360KB), PC/AT	225
0357	а	Internal Diskette Drive, 3.5in for 8MHz PC/AT and	
		PC/XT 286 (720KB), not supported as drive A or	170
		with 4865-2	170
0205	а	20MB Fixed Disk Drive, PC/AT	W/D
		30MB Fixed Disk Drive, PC/AT	1795
		Upgrade PC/AT BIOS, add 30MB drive	1795
0.00		-ro	

TAPE BACKUP DEVICES

4156 a 6157 Tape Attachment Adapter, PC	350
0842 A SY-TOS/IBM 6157 Tape Utilities V.2.0	
(backup/restore, library utilities driving 6157	
from 8530, 8550, 8560, 8580), Test Period 2 months	
(9/87)	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
1560-A01 h Tecmar Q60H Stand-alone Tape Backup Subsystem	
(60MB tape)	2144
7701 b Tecmar Q60AT Stand-alone Tape Backup Subsystem	
(60MB tape, mounts internal to PC/AT chassis)	1695
1561-A01 h Tecmar Q60W20 Disk/Tape Subsystem (60MB tape, 20MB	
disk, not for PC/AT)	3495

PRICE

MODEL/FC VPA	DESCRIPTION	PRICE
20	ecmar Q60W20AT Disk/Tape Subsystem (60MB tape, OMB disk, PC/AT only)	3195
	ecmar PCHOST (Tape backup units contain one	
	ttachment card, PCHOST allow attachment of	1/0
	ubsequent PC's to same tape unit) allgrass TG-1020i Tape Backup (special bid only)	149 895
0714 12	arigrass 16-10201 Tape Backup (special bid only)	093
A REALTIME INT	TERFACE CO-PROCESSOR (ARTIC)	
	the section on Industrial Software for	
13	istings of software supporting ARTIC.	
Th	ne ARTIC Multiport card features four or eight	
	orts with 19.2kbps async and 38.4kbps HDLC/SDLC.	
Al	ll eight ports may run at 9.6kbps concurrently.	
(0/0	D IM T C G D (ADMIG)	
	RealTime Interface Co-Processor (ARTIC) ultiport adapter, 4 ports, 128KB, Control Program	
	n 5.25in diskette (10/87)	1060
	RealTime Interface Co-Processor (ARTIC)	1000
	ultiport adapter, 4 ports, 128KB, Control Program	
	n 3.5in diskette (10/87)	1060
	12KB Memory Expansion for ARTIC Multiport,	00=
	eplaces base 128KB with 512KB (10/87)	285
	our-Port Expansion for ARTIC Multiport, provides additional RS-232/V.24 ports (10/87)	180
	IA RS-232 Multiport Interface Cable for ARTIC	100
	ultiport, 1 78-pin connector to 8 25-pin	
	onnectors, 10/87)	210
	BM Realtime Interface Co-Processor (ARTIC)	105
	ultiport, Technical Reference	185
	BM Realtime Interface Co-Processor (ARTIC) ultiport, Hardware Maintenance and Service	100
	artifort, naraware named and berviol	100
Tl	he ARTIC card features two serial ports with a	
	ax speed of 64kbps on one, 19.2kbps on the other.	
	ax of 2 interface cards per ARTIC.	
	RealTime Interface Co-Processor (ARTIC) driver	
	ard for multiple industrial programmable ontrollers, 128KB, Control Program on 5.25in	
	iskette	1295
	RealTime Interface Co-Processor (ARTIC) driver	
	ard for multiple industrial programmable	
	ontrollers, 128KB, Control Program on 3.5in	
	iskette (5160, 5170 only)	1295
	RealTime Interface Co-Processor (ARTIC) driver	
	ard for multiple industrial programmable ontrollers, 512KB, Control Program on 5.25in	
C	ourtriters, 2174p, control trogram on 2.721H	

1695

diskette

MODEL/FC VF	A DESCRIPTION	PRICE		
6166 a	A RealTime Interface Co-Processor (ARTIC) driver card for multiple industrial programmable controllers, 512KB, Control Program on 3.5in			
(051	diskette (5160, 5170 only)	1695		
	EIA RS-232C/CCITT V.24 Interface Board for ARTIC	130		
	EIA RS-422A Interface Board for ARTIC	245 210		
	CCITT V.35 Interface Board for ARTIC 20mA Current Loop Interface Board for ARTIC	190		
	128KB Memory Expansion for ARTIC (for FC6050 and	190		
0033 8	6165 only)	175		
6161 a	512KB Memory Expansion for ARTIC (for FC6160 and	1,3		
	6166 only)	300		
6056 a	RS-232C Direct Attach Interface Cable, 2m, for			
	ARTIC	100		
6057 a	RS-232C Modem Attach Interface Cable, 2m, for			
	ARITC	115		
	CCITT V.35 Interface Cable, 2m, for ARTIC	200		
	Technical Reference Manual, ARTIC	185		
6059 a	Hardware Maintenance and Service Manual, ARTIC	100		
1503 ε	POSE INTERFACE BUS ADAPTER 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.) IBM PC General Purpose Interface Bus (IEEE-488) Programming Support	295 89		
DATA ACQUISITION/CONTROL ADAPTER				
1502 <i>a</i>	See also Labtech Notebook, FC 9586. 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)	975		
	IBM PC Data Acquisition/Control Distribution Panel	190		
4202 A	IBM PC Data Acquisition/Control Adapter			
	Programming Support	175		
	See also Labtech Notebook, FC 9586, for additional DACA support			

KEYBOARDS

6279940 Keyboard Template (3, for Enhanced Keyboard)

4.95

MODEL/FC VPA	A DESCRIPTION	PRICE
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
1351717	Keycap Removal Tool (6, for Enhanced Keyboard)	11
11 SCELLANEO	US	
6011 a	IBM PC Music Feature (336 voices available, 8	
	played simultaneously	495
SA23-1035 SA23-1029	Technical Reference Supplement, PC Music Feature Hardware Maintenance and Service Supplement, PC	??
	Music Feature	??
9103 A	Microsoft Mouse (BUS 6.0) *	175
	Mouse Systems PC, XT Mouse	195
E002 11A	Comphise Tablet (CompanyDad (1/in a (1/in))	205
5083-11A	Graphics Tablet (CursorPad, 6.14in x 6.14in)	385
5083-12A	Graphics Tablet (11.5in x 11.5in)	535
1511	Cursor (Crosshair Mouse or 'Puck')	150
6351	Stylus	100
4010	Cable to attach RT PC to 5083 Tablets (2.50m)	60
4020	Cable to attach PC or PC/XT (5150, 5160) to 5083 Tablets (1.83m)	40
4025	Cable to attach PC/AT or PC/XT 286 (5170, 5162) to	40
	5083 Tablets (1.83m)	40
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	65
8654210	Bracket Kit (narrower card brackets for PC/XT)	3.95
7515 b	FTG Light Pen FT-156 (on 1597-A01)	195
3177	IBM PC Keylock Feature for PC, PX/XT	50
0218 a	Floor-Standing Enclosure, PC/AT	165
1585-S01	Topaz Powermaker Micro Uninterrupted Power System	
	Model 84126-57	1185
		•
DISPLAYS AN	D ATTACHMENTS, PC	
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) (7/87)	595

MODEL/FC VP	A DESCRIPTION	PRICE
S68X-2216	Hardware Maintenance and Service Update - Personal System/2 Display Adapter	30
S68X-2238	Hardware Maintenance Reference Update - Personal System/2 Display Adapter	6
	Initial shipments of InfoWindow in 4Q86 will support one videodisk player via RS232. Support of two players via IEEE-488 and 'sound over still' will be included 2Q87.	
4055-001 b	IBM InfoWindow Display (13in Diagonal, dual frequency RGB/NTSC, 64 color, 640H x 200/350V resolution, .22 Megapel, overlay live video, speakers, synthetic speech, touch sensitive,	/.10F
GX27-3671	videodisk attach) IBM InfoWindow Guide to Operations	4195 N/C
SX27-3665	IBM InfoWindow Hardware Maintenance and Service	??
8575140	InfoWindow Tilt/Swivel Display Base	70
6952300	InfoWindow Power Cord, 9-foot (standard cord is 6-foot)	10
5040 f	IEEE-488 Cable for InfoWindow	102
5240 a	InfoWindow Enhanced Graphics Adapter (IEGA) for use with 8530 and InfoWindow (7/87)	723
6583 a	Enhanced Graphics Adapter Jumper Card (connects EGA to GPIB card for control by InfoWindow)	40
SX27-3756	EGA Jumper Card Hardware Maintenance and Service	??
SK2T-0297	Manual InfoWindow Guide to Operations	??
5151 - 001 b	IBM Monochrome Display (11.5in Diagonal) (2 color, 80 character x 25 line, 720H x 350V resolution, .25 Megapel, 9x14 character cell)	275
4900 a	IBM Monochrome Display and Printer Adapter (Supports 5151)	250
3051	Preview! Monochrome Graphics Card (special bid	250
	only)	399
	IBM Color Display (13in Diagonal) (16 color, 80 character x 25 line, 640H x 200V resolution, .13 Megapel, 8x8 character cell)	680
4910 a	IBM Color/Graphics Monitor Adapter (Supports 5153 with 640x200x2 color through 160x200x8 color	
0010	graphics)	244
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)	849
1200 a	IBM Enhanced Graphics Adapter (64KB) Supports 5151, 5153, 5154 w/640x350x4-color on 5154 and	047
	256-character loadable set, character cell size programmable to 8H x 32V	524

MODEL/FC V	PA DESCRIPTION P	RICE
	Adapter Supports 640x350x16 color on 5154 and 512-character loadable set a IBM Graphics Memory Module (128KB) for Enhanced	199
	Graphics Adapter Memory Card Adds smooth scroll, pan, graphics pages, 1024-character loadable set	259
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) (Discount	2605
3001	Group B2) b Optional 5-meter cable for 3295 (Discount Group B2)	3695 / 95
3025	a 3295 (Plasma Display) Adapter (incl. Guide to	1495
GA23-0237	IBM PC Information Panel (3295) Guide to Operations (incl. Enhanced Control Programming Interface Support diskette)	N/C
SA23-0207	IBM PC Information Panel (3295) Programming Guide and Reference	51.50
SY27-2575	IBM PC Information Panel (3295) Hardware Maintenance and Service	50
	B 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)	69
PRINTER AT	TACHMENTS, PC	
SENERAL		
5200	a Printer Adapter (for 5152, 4201, etc.)	75
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

SK2T-0955

MODEL/FC VF	A DESCRIPTION	PRICE
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
	E ATTACHMENT, PC	
4925 <i>a</i>	3117 PC Adapter (connects 3117, PC family, req. cable FC3005)	240
3005 a	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
4920 <i>a</i>	High-Speed Adapter (connects 3118, or 3117 with Expansion Unit to PC family at 1mbps RS422, req.	
	serial communications cable FC 2067)	295
GA18-2476	Guide to Operations - High Speed Adapter	25.50
SC18-2117 SY18-2167	High Speed Adapter Technical Reference High Speed Adapter Hardware Maintenance and	19
0110-2107	Service	26.25

Supplement of High Speed Adapter, Guide to Operations and Hardware Maintenance and Service

15.75

MODEL/FC VPA

DESCRIPTION

PRICE

MODEL/FC VPA DESCRIPTION

PRICE

COMMUNICATIONS HARDWARE AND SOFTWARE

GENERAL

		Communications Adapter Cable (ASC/BSC/SDLC) (not for use with PC/AT Serial/Parallel Adapter)	65
		Serial Adapter Cable (10-foot long cable), PC/AT	65
0242	а	Serial Adapter Connector (10in long cable), PC/AT	35
5841-001		IBM 75-1200bps Synchronous-Asynchronous Modem (Separate VPA)	609
5842-001		IBM 75-2400bps Synchronous-Asynchronous Modem (Separate VPA)	719
GA27-3738		Guide to Operations, 5842 Modem	25
0837	A	IBM 3270 Workstation Program V.1.1, Warranted, Central Service to 9/88 ** (1Q88, except National Language Support 2Q88)	495
0652	A	ADDITIONAL LICENSE, IBM 3270 Workstation Program V.1.1	395
0800	A	IBM 3270 Workstation Program V.1.0, Warranted, Central Service to 9/87 (6/26/87, except support for Personal System/2 M60 and M80 9/25/87) ***	495
0651	A	ADDITIONAL LICENSE, IBM 3270 Workstation Program V.1.0, Warranted, Central Service to 9/87	395
0801	В	(6/26/87) ** UPGRADE, 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.1.0 (through 3/88)	250
0654	В	ADDITIONAL LICENSE of UPGRADE, 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.1.0	190
0831	В	UPGRADE, PC 3270 Emulation Program, Entry V.1.0 or V.1.1 to IBM 3270 Workstation Program V.1.0	
0655	В	(through 3/88) ADDITIONAL LICENSE of UPGRADE, PC 3270 Emulation Program, Entry V.1.0 to IBM 3270 Workstation	325
SA23-0343		Program V.1.0 IBM 3270 Workstation Program, Programming Guide	245 112
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	
0601	A	or to 6/88 ADDITIONAL LICENSE, PC 3270 Emulation Program	475
		Version 3.0	??
9972		UPGRADE, PC 3270 Emulation Program Version 2.0 to PC 3270 Emulation Program Version 3.0 (thru 7/87)	75

MODEL/FC VI	PA DESCRIPTION	PRICE
0619 H	ADDITIONAL LICENSE of UPGRADE, PC 3270 Emulation Program Version 1.0 to PC 3270 Emulation Program Version 3.0	??
0620 I	ADDITIONAL LICENSE of UPGRADE, PC 3270 Emulation Program Version 2.0 to PC 3270 Emulation Program	0.0
9970	Version 3.0 UPGRADE, 3270 Emulation Entry Program, Entry Level to PC 3270 Emulation Program Version 3.0	??
0621 I	ADDITIONAL LICENSE of UPGRADE, PC 3270 Emulation Program, Entry V.1 to PC 3270 Emulation Program	
9971	Version V.3.0 UPGRADE, PC Network SNA 3270 Emulation Program to PC 3270 Emulation Program Version 3.0 (thru 7/87)	?? 75
SC23-0960	IBM PC 3270 Emulation Program V.3 Application Program Interface (API) and Host Reference	25
NOTE: PC 3270 3174.	Emulation Program V.2 is not supported for coaxial att	achment to a
9951 8	A PC 3270 Emulation Program Version 2.0 (standalone and LAN support, LAN gateway 5 sessions via coax or 32 sessions via SDLC, coax attach is via SDLC	
9953	3274 only) (W/D 4/87) Upgrade 3270 Emulation Entry Program, Entry Level	425
SC23-0892	to PC 3270 Emulation Program Version 2.0 Application Programming Interface Manual and Host	240
8575345	Reference for PC 3270 Emulation V.2 IBM 3270 Emulation Memory Management Enhancement, swap PC 3270 Emula Pgm V.2 or laterin/out of	25
	memory by hotkey, req. Carousel Program by SoftLogic (5/1/87)	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 (5/29/87)	165
0849 A	A Programming Guide, Advanced Program-to-Program Communication for the IBM PC (3.5in+5.25in)	
7038	(5/29/87) A Advanced Program-to-Program Communication for the IBM PC, (SNA LU 6.2 on SDLC and Token-Ring)	170
0851	Central service to 6/30/87 A ADDITIONAL LICENSE, Advanced Program-to-Program	150
3653	Communication for the IBM PC 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 (3Q87)	395
7610 1	Emulex DCP-88/VM-128K with DCP/EXEC Operating System (on 1596-B01)	1400
	Emulex DCP-88/VM-256K with DCP/EXEC Operating System (on 1596-B01)	1825
	D Emulex DCP-88/VM-128K (on 1596-B01) D Emulex DCP-88/VM-256K (on 1596-B01)	1200 1625

4451	A	IBM Mainframe Communication Assistant V.1.05 (part of Assistant Series, async or coax, adds support	
0603	A	of PC Convertible) (on 5.25in diskette) ADDITIONAL LICENSE, IBM Mainframe Communication	199
4452	A	Assistant V.1.05 (on 5.25in diskette) IBM Mainframe Communication Assistant V.1.05 (part	??
		of Assistant Series, async or coax, adds support of PC Convertible) (on 3.5in diskette)	199
4449		Upgrade Mainframe Communication Assistant to V.1.05	85
9760	A	Micro-Translator by Metro-Mark Integrated Systems	
		* (convert TDCC or ANSI data, create and generate acceptance/rejection advice, dial EDI/BDI)	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 ** (9/87)	299
6149		Upgrade Personal Services/PC to V.1.3 (through 3/88)	35
0912	A	Personal Services/PC V.1.2 (DISOSS/370, S/1 Office, peer-peer, async or coax, 3278/79 em. adapt., 3270-PC), Warranted, Central service 6 mo.	
		notice or to 12/87 **	275
0911		Upgrade PS/PC to V.1.2 (through 3/87)	35
SC30-3286		DISOSS Version 3 Release 2 Support for Personal	-
		Services/PC	3.60
SC30-3332		Personal Services/FC Technical Reference	16
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	05000
		PLIVIGEOFRY LENETHI SETVICE TO 17/89	85000

MODEL/FC VP	A DESCRIPTION	PRICE
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
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)	33
IETWORK MAN	AGEMENT (GENERAL)	
5669-024	NetView/PC, 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	2000
52205	12/91 (2Q87) NetView/PC ROLM Alert Monitor, NetView/PC application to monitor ROLM CBX, some non-ROLM PBX's (Order from ROLM, 3Q87) Central Service to	2000
52200	12/91 NetView/PC ROLM Call Detail Collector, NetView/PC application to do call accounting on ROLM CBX,	6500
	some non-ROLM PBX's (Order from ROLM, 3Q87) Central Service to 12/91	6500
	See also the Token-Ring Network Manager V.1.1, which can operate with NetView/PC to provide remote management of Token-Ring Networks	
ENHANCED CO	NNECTIVITY FACILITIES	
	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.	
SC23-0959	IBM Programmer's guide to the Server-Requester Programming Interface (SRPI) for the IBM PC and IBM 3270 PC	25
5664-327	IBM CMS Servers/Requesters for SRPI (3Q87), req. VM/SP R.4, Warranted, Central Service 6 mo. notice (monthly charge, also available for graduated	
	one-time charge)	850

01 0	, 1707	
MODEL/FC VP	A DESCRIPTION	PRICE
5665-396	IBM TSO/E Servers/Requesters for SRPI (3Q87), req. TSO/E R.3 and MVS/XA, Warranted, Central Service 6 mo. notice (monthly charge) Upgrade Attachment/370+ to IBM PC Requesters	1350 188
6066 A	Host Data Base View Facility (HDBV) V.2, get data from IC/1(VM), QMF, TIF, AS, format for DIF, Filing Assistant, PDS, Symphony, 123, dBase, Multiplan, or print, uses SRPI or Mainframe Commo Asst	495
6091	Upgrade HDBV V.1 to V.2	125
ASYNCHRONOU	S	

GENERAL

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).

	IBM 75-1200bps Internal Async Modem (short card) IBM 75-2400bps Internal Async Modem (short card) Guide to Operations, 2400bps Internal Modem Technical Reference, 2400bps Internal Modem Hardware Maintenance and Service, 2400bps Internal Modem	499 569 35 30
2074 a	ASYNCH Adapter (included with fixed-disk models of the PC/XT)	70
7619	AST-FourPort/XN Communications Board (4 RS-232 ports to 9600 baud, cable included, for Xenix in PC/AT) (special bid only)	495
4032 A	Asynchronous Communications Support V.2	65
0604 A	ADDITIONAL LICENSE, Asynchronous Communications Support V.2	??
9226 A	PC/Colorview (Videotex), Central service for 90 days or to 4/87	115
4206 A	IBM PC Graphics Terminal Emulator (Tektronix	24.5
0914 A	4010/4100 protocols, ADM3A) (W/D 5/8/87) PC/Host (3270 emulation, background file transfer, terminal and printer sessions plus PC hotkey, req. 3708 w/FC3524 or 3710 and host 3270-PC File	319
	Transfer Program)	200

	MODEL/FC	VPA	DESCRIPTION	PRICE
	4100) A	IBM PC Personal Communications Manager (W/D	
			5/8/87)	109
	6276538	3 #	Portfolio Management System (communicate with Dow	
			Jones)	99.95
	6276622	2 #	Portfolio Management System Reference Book	10
	5798 - DQ0		Series/1 Department Office Control System (EDX,	
	·		FC9045), Central service to 12/86	1980
	5799-TNC	3	Series/1 Intelligent Workstation PRPQ V.2	
			Warranted, Central service 6 mo. notice	175
	5799-TG0	7	Series/1 Intelligent Workstation PRPQ V.1	•
			Warranted, Central service to 6/85	150
	9299) A	SmarTerm 100 (DEC VT100, 101, 102, 52 emulator) by	
			Persoft *	149
	5732-019	9	System/88 IBM PC Terminal Support Release 2	
			(Release 3 available 2087) (Order FC 9080, 4000)	100
			(, (,	
	9229	9 A	PC/Videotex for the PC/XT V.B1.10 supporting Enh.	
			Graphic Display), Warranted, Central service to	
			11/86	275
	9376	5 A	PC/Videotex-Graphic Artist Facility (VTXGRAF) for	2.3
	3370	<i>J</i> 11	use with PC/Videotex and Videotex/370, supports	
			5082-2 tablet, Central service for 90 days or to	
			1088	2500
	9230	η Δ	PC/Videotex for the PCjr, Warranted, Central	2300
	725	<i>J</i> 11	service to 11/86 (W/D 3/87)	239
	607	1 Δ	PC/VTXACCESS for the IBM PC Central service for 90	237
	007.		days	65
	9186	5	WESTLAW Communications Session Manager by Direct	03
	710		Aid, Inc. *	350
	404	2 Δ	IBM 3101 Emulation	149
			ADDITIONAL LICENSE, IBM 3101 Emulation	149
	211:			147
	211.	,	highlighting, hotkey) Central service to 3/86	15
			nightighting, hotkey) dential service to 5/00	13
9	CFRIFS/1	PΓ	CONNECTIVITY OPTION	
	LKILO/I	10	COMMECTIVITY OF FIGH	
	5710-RT	J	IBM Series/1 PC Connectivity Option	
		- .		
			Common Sign and Menu System	
	900	1	Asset Assignment	
	210		License Fee (no media)	440
	302.		DSKT 2 256 b/s - Object Code	
	302		DSKT 2 256 b/s - Source Code	
		-		
			Printer Emulation for the IBM Personal Computer	
	900	1	Asset Assignment	
	211		License Fee (no media)	350
		-		

no or nprir o	, 1707	
MODEL/FC VP	A DESCRIPTION	PRICE
3026 3028	DSKT 2 256 b/s - Object Code DSKT 2 256 b/s - Source Code	
	Series/1 Pregenerated Operating Environment (requires RPS 6.1, Multiple Terminal Manager, Intelligent Workstation PRPQ, and other PRPQ's)	
9001 2108	Asset Assignment DSKT 2 256 b/s - Pregenerated Operating Environment/Process Charge	150
^ ·		
WATERLOO AN	D WATCOM MICRONET & LANGUAGES (SEE GB20-2339)	
5793-AAP	Waterloo and WATCOM Languages, incl. APL, BASIC, COBOL, FORTRAN, and Pascal interpreters, Waterloo Sys. Lang., assembler (host and PC programs), Central service for 1 year or to 10/87	
9001	Asset Assignment	N/C
2004	Waterloo Languages for 30 IBM PC's	4950
2005	Waterloo Languages for VM/CMS	6600
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	
9001	Asset Assignment	N/C
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
DISPLAYWRIT	ER/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		75
6403731	Attach Program Diskettes	300

BINARY SYNCHRONOUS AND SDLC COMMUNICATION

8001	а	Multiprotocol Communications Adapter (Asc, BSC,	
		SDLC)	475
1204	а	BSC Adapter (PC, XT, and PC/AT)	240
4037	Α	Binary Synchronous 3270 Emulation	769
4210	Α	IBM PC DisplayComm (BSC) Communications V.1.1 (IBM	
		2770/3780 and IBM 2780 Emulation)	409
0606	Α	ADDITIONAL LICENSE, IBM PC DisplayComm (BSC)	
		Communications V.1.1	??
4187	Α	IBM PC DisplayComm (BSC) Communications (IBM	
		2770/3780 and IBM 2780 Emulation)	409
1205	а	SDLC Adapter (PC, XT, and PC/AT)	240
4036	Α	SNA 3270 Emulation and 3770 RJE Support	769
5799-BRQ		8100 DPPX/SP PC RJE File Transfer, Warranted,	
		Central service 12 mo. notice	1010
9178	Α	IBM PC SNA 3790 Batch Communications Program,	
		Central service to 3/88	385
2874	A	Remote 5250 Emulation Program (S/36-38)	195
0608	Α	ADDITIONAL LICENSE, Remote 5250 Emulation Program	??

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,	
		incl. 2912, 2877, and 2871 (5.25in+3.5in) **	845
2871	а	Enhanced Display Station Emulation Adapter	595
2912	Α	Enhanced 5250 Emulation Program V.2.12	
		(5.25in+3.5in)	160
0609	Α	ADDITIONAL LICENSE, Enhanced 5250 Emulation	
		Program V.2.12 (5.25in+3.5in)	??
2913		Upgrade Enhanced 5250 Emulation Program V.2.1 to	
		V.2.12 (through 11/3/87)	92
9705		Enhanced Keyboard Appendix (required to run	
		Enhanced 5250 Emulation Program with PCs having	
		the Enhanced Keyboard)	N/C
2877	а	Integrated Attachment Cable	90

The 'Workstation Feature' of PC Support/36 allows Token-Ring attached PCs to emulate 5250 terminals. See also S/35 LAN Communications Program.

MODEL/FC VP	A DESCRIPTION	PRICE
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	
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 (2087)	N/C
4401	Workstation Feature Monthly Charge Option (2087)	100
4400	Workstation Feature One-Time Charge Option (2087)	1500
4402	Workstation Feature DSLO One-Time Charge (2087)	1320
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	
4790	One-Time Charge Option	280
9703	DSLO One-Time Charge	210
6181	Workstation Feature (LAN-attached PCs as S/36	
	terminals) Asset Assignment (2Q87)	N/C
4121	Workstation Feature One-Time Charge Option (2087)	600
6517	Workstation Feature DSLO One-Time Charge (2087)	450
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	
4582	Basic License for 5714-PC1	995
6550	Expansion Feature (additional concurrent users,	
	enhanced virtual printer support, performance)	350
9582	DSLO License for 5714-PC1	876
5799-BNZ	File Support Utility PRPQ S/34, Warranted, Central	
	service for 90 days	300
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
9235 A	Attachment/36 Edition (for PC) (requires FC 2886	
	and Data Edition program), Warranted, Central	
	service for 90 days or to 12/86	165
5727-BRK	Attachment/36 (for S/36, FC9049), Warranted,	
	Central service 6 mo. notice	1155

COAXIAL COMMUNICATION (3270-PC FAMILY)

For hardware, see "Processors - 3270-PC Versions" on page 49, "Processors - 3270-PC/AT Versions" on page 51, "Processors - 3270-PC Plasma Display Versions" on page 53, and "Processors - 3270-PC / G and GX Versions" on page 54.

MODEL/FC V	PA	DESCRIPTION	PRICE
		The IBM 3270-PC Control Program can be upgraded to the IBM 3270 Workstation Program	
		3270-PC Control Pgm (for 5271, exc. m 24/26) V.1.2.2, Central service to 12/86 ** (W/D 7/10/87) 3270-PC Control Pgm (for 5271, m22/24/26) V.1.2.1,	329
		Central service to 6/86 ** (1.2.2 recommended for m 2/4/6) (W/D 7/10/87)	329
6168460		Virtual Device Interface Update Kit for V.1 and $V.2$	N/C
3005	A	3270-PC Control Program (for 5273) V.2.1, Central service to 9/86 ** (W/D 7/10/87)	329
3015		Workstation Update Kit for 2.0 to 2.1 (order on 5875-UPG) (W/D 7/10/87)	65
		3270-PC Control Program Version 3.0 (XMA, Enhanced Keyboard, 8MHz PC/ATs) ** Central service to 12/87 (W/D 7/10/87)	450
5800		Upgrade 3270-PC Control Program to Version 3.0 (W/D 7/10/87)	200
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 (2Q88)	195
0635	A	ADDITIONAL LICENSE, 3270-PC High-Level Language Application Program Interface V.3.1 for 5271 and 5273 ***	155
5797	A	3270-PC High-Level Language Application Program Interface V.3.0 for 5271 and 5273, Central service to 12/87 **	195
0602	A	ADDITIONAL LICENSE, 3270-PC High-Level Language Application Program Interface V.3.0 for 5271 and	
5802		5273 Upgrade High-Level Language Application Program Offering to Version 3.0	?? 95
6276654	#	EzAPI (interpretive command language for writing HLLAPI programs, incl. logic, disk I/O, req.	
GG24-1687 5798-DXX		HLLAPI) 3270-PC, A Guide to API Programming IBM Professional Work Manager (execution environment for host and PC applns, packaged APIs	74.95 N/C
		for logon and host applns, req. ISPF/PC, HLLAPI, hard disk, use FC4433+FC9075) Central Service to 8/88	385
3245	A	3270-PC/AT/G/GX Graphics Control Program Version 3.21 (for 5373 G/GX), req. 1MB PC memory, Central	FF0
		service 6 mo. notice or to 2/87 **	550

MODEL/FC VP	A DESCRIPTION	PRICE
5668-820 4757 4749	Storage Tube Simulator Program (GDDM calls and extensions to emulate Tektronix Plot 10 calls on G/GX, req.Tektronix code), Warranted One-Time Charge Option Monthly License Charge Option	2750 300
6047 A	3270-PC/AT/GX 3277GA (Graphics Attachment) Emulator (GCP not required) Central Service to 12/88 **	1000
	See the 3270-PC Color Graphics Applications (GGXA) graphical editor, FC 1508	
5664-281	3270-PC File Transfer Program VM/SP 2.1,	(00
5665-311	Warranted, Central service 6 mo. notice 3270-PC File Transfer Program MVS/TSO, Warranted,	600
5798-DQH	Central service 6 mo. notice 3270-PC File Transfer Program CICS/VS	600 660
	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
9801	Lotus/Answer (convert data from Answer/DB into	550
9802	Lotus, Symphony format) Central Service to 12/88 * dBase/Answer (convert data from Answer/DB into dBase, Framework format) Central Service to 12/88 *	550 550
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.)	330
4410 4411	One-Time Charge for Answer/DB under IMS/DC One-Time Charge for Answer/DB under CICS	35000 20000

COAXIAL COMMUNICATION (3278/79 EMULATION ADAPTER)

See also the 4700 Finance Communication System.

See also the Answer/DB, Lotus/Answer, and dBase/Answer products under Coaxial Communication (3270-PC) above.

See also the PC 3270 Emulation Program under Communications Hardware and Software (General) above.

3270-PC) (requires Data Edition program),

Central service 6 mo. notice

Monthly Charge Option

One-time Charge Option

Warranted, Central service for 90 days or to 5/88

Attachment/MVS (for MVS, FC9029/9031), Warranted,

300

1000

22000

4593

4594

5665-336

MODEL/FC VPA	A DESCRIPTION	PRICE
5664-290	Attachment/VM (for VM, FC9029/9031), Warranted, Central service 6 mo. notice	
4780 4781	Monthly Charge Option One-time Charge Option	800 17600
SH24-5087	PC/VM Programmer's Guide	3.35
	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 12/87 ** VM Bond Technical Coordinator Support package	250
7043 A	Rel.2 (required for NSC support, contains one copy of FC7022 and FC4143), Warranted, Central service 6 mo. notice or to 6/86	400
	Release 2.1 of PC/VM Bond adds support for VM/SP Release 5, PC Enhanced Keyboard, 3174, and PC DOS 3.2	
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 12/87 **	250
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	. 400
5664-298	PC Bond Rel.2.1 (Host support for FC7077), Warranted, Central service Rel.2 6 mo. notice, Rel.1 to 6/30/86	
9001 5466	Asset assignment 1600 BPI tape media	
5467	6250 BPI tape media	
5465 4566	3480 Tape Cartridge One-Time Charge Option	2000
4547	Monthly Charge Option	135
4406 A	4700 PC Application Services (supports FCS Input/Output/Security Options), Warranted, Central service 6 mo. notice or to 9/89	300
7625 b	DCA Irma Card (on 1597-S01)	1195
COAXIAL COM	MUNICATION (ATTACH TO EXISTING 3278/3279)	
5318	IBM 3278 PC Adapter (3278 Portion) for m1-4 S/N A0000-N9999, 9V000-9W999	850
5317	IBM 3278 PC Adapter (3278 Portion) for m5, other m4	850

MODEL/FC VPA DESCRIPTION PRICE

5799-WXJ 8100 DPPX/SP 3278/9 Attach File Transfer, Warranted, Central service 12 mo. notice

N/C

8100 LOOP ATTACHMENT

7630 b 8100 PC Adapter RLOOP Kit (on 1593-A01)

1275

LOCAL AREA NETWORKS

See also "IBM SolutionPac Offerings" on page 27 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	N/C
		For remote SDLC 3270 emulation on the PC and Token-Ring Networks, see the IBM PC 3270 Emulation Program Version 2 (FC 9951).	
7803	A	IBM Local Area Network Support Program, provides NETBIOS and IEEE 802.2 interfaces for new adapters, (3.5in+5.25in) Test Period 2 months,	
		Warranted, Central Service to 9/88 **	50
0631	A	ADDITIONAL LICENSE, IBM Local Area Network Support	
		Program **	28
0632	С	DOCUMENTATION ONLY (Final Version) IBM Local Area	
		Network Support Program	19
5227	C	DOCUMENTATION ONLY (Interim Version) IBM Local	
		Area Network Support Program	19
1001		IDM DC Nationals Discussion V 1 2 and an and	
1001	A	IBM PC Network Program V.1.2, enhanced performance, disk cache, up to 254 sessions	
		depending on adapter (support for 8580 will be	
		available 9/87)	175
06/15	٨	ADDITIONAL LICENSE, IBM PC Network Program V.1.2	135
		DOCUMENTATION ONLY, IBM PC Network Program V.1.2	30
		UPGRADE, IBM PC Local Area Network Program V.1.0	30
1127	י	or V.1.1 to V.1.2 (through 1/88)	80
0647	R	ADDITIONAL LICENSE of UPGRADE, IBM PC Local Area	00
00-17	-	Network Program V.1.0 or V.1.1 to V.1.2	60
0083	A	IBM PC Local Area Network Program V.1.10 (replaces	
3300		IBM PC Network Program) (W/D 10/7/87)	125
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
		그는 것이 들었다. 그는	

MODEL/FC VI	PA DESCRIPTION	PRICE
	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 1	A IBM Local Area Network Asynchronous Connection Server Pgm, up to 32 sess on dedicated gateway, Token and PC Net (3.5in+5.25in) Test Period 2 months, Warranted, Central Service to 12/88 (12/87)	1200
2003	A IBM Asynchronous Communications Server Program for	1200
9396	the IBM Token-Ring Network and PC Network IBM Local Area Network PrintManager (shares 3820 printer, also for Corvus Omninet) Central service	495
	to 9/86	800
6276586	PC Network Remote Control (run programs on other LAN PC's, view other PC's displays, for any	0/ 05
6276562	NETBIOS LAN) F PC Network Remote Control (6 copies)	24.95 99
	A IBM Remote NETBIOS Access Facility (telephone	99
,,,,	access to server, network functions from remote PC, for any NETBIOS LAN, runs both in gateway and remote PC)	195
8910	A IBM LAN Manager V.1.0 for Token-Ring or broadband PC Net, manages multi-ring networks (5.25in+3.5in) Test Period 2 months, Warranted, Central Service to 6/89 ** (12/87)	1995
8913	IBM LAN Manager Upgrade, upgrade IBM Token-Ring Network Manger to LAN Manager V.1.0 (12/87,	
	through 9/88)	500
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 ** (12/87)	995
9691	A NetWare Bridge by Novell * (interconnect PC Net,	205
9689	Cluster) V.2.0A A Novell Advanced NetWare/86 * V.2.0A	395 1595
9780	Novell Advanced NetWare/286 * V.2.0A	1373
	(Non-Dedicated)	2195
9766 4159	Novell Advanced NetWare/286 * V.2.0A (Dedicated) A IBM PC Classroom LAN Administration System (CLASS) V.1.0 (Installation oid for IBM education	2195
	(CLASS), V.1.0 (Installation aid for IBM education software under Netware/86 program)	995

IBM TOKEN-RING NETWORK

See "Single Shipment Volume Offering (PC and Token-Ring Networks)" on page 12 for the terms of the Single Shipment Volume Discount Offering for the Token-Ring Network PC Adapter.

8228-KT1		IBM Token-Ring Network Starter Kit (1-8228, 1-Component Housing, 4-TR PC Adapter, 4-TR PC Cable, 4-30ft. Jumper Cable, 4-TR NETBIOS Pgm,	
SK2T-0299 8228-KT2		4-TR LAN Pgm, TR Starter Kit Guide) (W/D 7/2/87) IBM Token-Ring Network Starter Kit Guide 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,	4065 34.50
SK2T-0303		4-LAN Pgm 1.2, TR Starter Kit Guide) (5/87) IBM Token-Ring Network Starter Kit Guide, 2nd Edition (5/87)	4350 55
3391 0370		IBM Token-Ring Network PC Adapter 8 Token-Ring Network PC Adapters, Single-Shipment	695
0371		Volume Offering 20 Token-Ring Network PC Adapters, Single-Shipment	4726
83X7839		Volume Offering 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	11398
		PX0027 or equivalent in server	80
5063	а	IBM Token-Ring Network PC Adapter II, Required for Industrial PC, Token-Ring Bridge, and S/36	
3390 83X7839		Attachment IBM Token-Ring Network PC Adapter Cable 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	895 35
6042		PX0027 or equivalent in server IBM Token-Ring Network PC Adapter Diskette (3.5in) provides adapter handler Adapter and Adapter II for 8530, included with adapters after April 2,	80
6043		1987) IBM Token-Ring Network PC Adapter Hardware Maintenace and Service Addendum for 8530	N/C 20
		See also the Advanced Program-to-Program Communication Program (FC 7038) for support of SNA LU 6.2 on the Token-Ring Network	20
7037	A	IBM Token-Ring NETBIOS Program, Central service to 6/30/87 (W/D 7/10/87)	35
0910	Α	IBM Token-Ring NETBIOS Program, V.1.1 (Adds support for attachment of 3270-PC to Token-Ring, 3.5in+5.25in) Warranted, Central service to 12/87 ** (W/D 7/10/87)	35
7860	A	IBM Token-Ring Network Bridge Program V.1.1, adds centralized multi-ring LAN management, (3.5in+5.25in) Test Period 2 months, Central	
		Service 90 days notice or 6/89 **	1495

MODEL/FC VP	A DESCRIPTION	PRICE
8880 A	Upgrade Token-Ring Network Bridge Program V.1.0 to	
	V.1.1 (through 9/30/88)	130
0908 A	IBM Token-Ring Network Bridge Program V.1.1,	
	Creates bridges between rings, Central Service 90	
(014.1	days notice or 12/87 **	1495
6041 A	IBM Token-Ring Network Bridge Installation Kit,	0005
0907 1	Incl. program, 2 Adapter-IIs IBM Token-Ring Network Manager (problem	3285
0907 A	determination, error recovery) Central Service 90	
	days notice or to 12/87 ** (W/D 7/10/87)	1495
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	
	(2087) **	1495
0933	Upgrade Token-Ring Network Manager V.1 to V.1.1	7.5
	(2Q87)	75
	For S/36 LAN Communications, see also PC	
	Support/36 which is required for LAN connection	
	•	
3098 a	System/36 LAN Attachment Adapter (extra, for	
	gateway PC/AT, note that FC 3098 is also shipped	600
5727-LC1	as part of 536X LAN Attachment Feature) (2Q87) IBM System/36 5360/5362 LAN Communications (links	600
3/2/-161	S/36, Token-Ring via dedicated PC/AT, supports	
	5250 and 3278 emulation via PC Support/36)	
	Warranted, Central Service 6 mo. notice (2087)	
4404	Monthly Charge Option	75
4403	One-Time Charge Option	925
9520	DSLO One-Time Charge	814
5727-LC6	IBM System/36 5364 LAN Communications, Warranted,	
4122	Central Service 6 mo. notice (2Q87) One-Time Charge Option	695
9887	DSLO One-Time Charge	521
,,,,,	bbb one lime ondige	321
IBM TOKEN-R	ing Network Support Publications	
69X7830	IBM Token-Ring Network PC Adapter Technical	
0,111,000	Reference (Including the Adapter II)	195
6165880	IBM Token-Ring Network PC Adapter Hardware	
	Maintenance and Service	250
IBM PC NETWO	nr K	
THEFT		
1220 a	PC Network Adapter II (broadband, 1 per PC, incl.	
	9-ft. coax, req. LAN Support Program or PC Network	
C(0V 0000	Protocol Driver)	570
S68X-2223	IBM PC Network Adapter II Technical Reference	21.25

DESCRIPTION

PRICE

See "Single Shipment Volume Offering (PC and Token-Ring Networks)" on page 12 for the terms of the Single Shipment Volume Discount Offering for the Token-Ring Network PC Adapter.

0213	3 a	PC Network Adapter (broadband, 1 per PC, incl.	
		9-ft. coax)	595
0372	2	8 PC Network Adapters, Single-Shipment Volume	
		Offering	4046
0373	3	20 PC Network Adapters, Single-Shipment Volume	
		Offering	9758
006	1 A	IBM PC Network Protocol Driver, supports new PC	
		Net adapters and Personal System/2, and up to 61	
		sessions in a server, Test Period 2 months	100
0666	6 A	ADDITIONAL LICENSE, IBM PC Network Protocol Driver	81
976	2 A	IBM PC Network Analysis Program	1295
060	7 A	ADDITIONAL LICENSE, IBM PC Network Analysis	
		Program	??
S68X-226	5	IBM PC Network Adapter Technical Reference	17.25
122	1 2	IBM PC Network Baseband Adapter (baseband, req.	
I 4.		LAN Support Program)	470
S68X-226	7	IBM PC Network Baseband Adapter Technical	470
500A 220	,	Reference	21.25
		VETET 6UC	41.43

IBM SERIES/1-PC CHANNEL ATTACHMENT FEATURE

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)	32	65
4001	S/1 to PC Channel Attach Cable (12-ft cable)	4	35
5719-CN1	IBM Series/1-PC Connect Version 1 (sep.QDA),		
	Warranted, Central service to 3/88		
9720	Asset registration	- 4	00
2123	Media distribution and process charge		34

MODEL/FC VPA DESCRIPTION PRICE

IBM PERSONAL COMPUTER CLUSTER SYSTEM

0027 IBM	PCjr Cluster Attachment	250
1206 a IBM	Personal Computer Cluster Adapter	340
1207 a IBM	Personal Computer Cluster Cable Kit	110

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)	229
2205 a Hardware Maintenance and Service Manual for the	
5364 Driver Card	80
3606 a Stick-on Keytop LabelsPC Style (extra)	4.70
3641 a Stick-on Keytop Labels5250 Style (extra)	4.70

SPERRY TERMINAL EMULATION

7603 b Chi Speri	y Terminal	Emulation	Board			745
7602 b Chi Speri	y Terminal	Emulation	Board	(PN	55X3355)	
with Cabl	les (PN 55X	3356)				795

VOICE COMMUNICATIONS

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

8982	a IBM Personal Telephone Manager Adapter	187
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

MODEL/FC	VPA	DESCRIPTION	PRICE
4771	а	Voice Communications Option (includes Voice Communications Adapter and Operating Subsystem, cables, guide, diagnostics)	995
4839	а	Voice Communications Adapter (does not include and not FCC Approved without Voice Communications	
0708	Α	Operating Subsystem program) IBM PC Voice Communications Operating Subsystem	950 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	Α	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	147
0740	A	operation) IBM PC Augmented Phone Services (telephone aid,	99
		<pre>voice synthesis, touch-tone input for speech/hearing impaired)</pre>	149
5002 S68X-2207		Speech Adapter, Personal System/2 Model 30 Technical Reference Manual Supplement, 8530 Speech	345
2301. 2207		Adapter	13

PRICE

PC-DOS SOFTWARE

PC-DOS OPERATING SYSTEMS AND PROGRAMMING AIDS

PC-DOS OPERATING SYSTEM AND COMPILERS

0957	Α	IBM PC Disk Operating System (DOS) 3.3 (Includes	
		support for Personal System/2) (3.5in+5.25in)	120
0648	Α	ADDITIONAL LICENSE, IBM PC Disk Operating System	
		(DOS) 3.3	99
0650	C	DOCUMENTATION ONLY, IBM PC Disk Operating System	
		(DOS) 3.3	35
0958	В	UPGRADE any release of PC DOS to DOS 3.3 (through	
		12/87) (3.5in+5.25in)	75
0649	В	ADDITIONAL LICENSE of UPGRADE, any release of PC	
		DOS to DOS 3.3 (through 12/87)	60
		-	
0057	Α	IBM PC Disk Operating System (DOS) 3.2 on 5.25in	
		diskettes (Includes support for Token-Ring	
		Network) (W/D 7/10/87)	95
	0648 0650 0958 0649	0648 A 0650 C 0958 B 0649 B	0648 A ADDITIONAL LICENSE, IBM PC Disk Operating System (DOS) 3.3 0650 C DOCUMENTATION ONLY, IBM PC Disk Operating System (DOS) 3.3 0958 B UPGRADE any release of PC DOS to DOS 3.3 (through 12/87) (3.5in+5.25in) 0649 B ADDITIONAL LICENSE of UPGRADE, any release of PC DOS to DOS 3.3 (through 12/87) 0057 A IBM PC Disk Operating System (DOS) 3.2 on 5.25in diskettes (Includes support for Token-Ring

For a special promotional offering on the following item, see "Special Promotion for the IBM 5140 PC Convertible" on page 1.

0058 A IBM PC Disk Operating System (DOS) 3.2 on 3.5in diskettes (Includes support for PC Convertible) (W/D 7/10/87)	95
4211 A IBM PC Disk Operating System (DOS) 3.1 (Includes	85
support for PC/AT, PC Network) (W/D 7/10/87) 4120 A IBM PC Disk Operating System (DOS) 2.1 (Includes	65
support for PC/XT and PCjr)	85
4193 A IBM Personal Computer Macro Assembler V.2.0 on	400
5.25in diskettes	189
0077 A IBM Personal Computer Macro Assembler V.2.0 on 3.5in diskettes	189
4216 A IBM Personal Computer BASIC Compiler V.2.0 (on 5.25in diskettes)	539
0078 A IBM Personal Computer BASIC Compiler V.2.0 (on	337
3.5in diskettes)	539

See "Redistribution of PC Software" on page 15 for information on redistributing programs prepared using the BASIC Compiler.

4101 IBM PCjr BASIC Interpreter	75
0072 A IBM PC C Compiler Version 1 (incl. four memory	
models, math co-processor support, MAKE, symbolic	
debug, on 5.25in diskettes)	495

MODEI	J/FC V	PA	DESCRIPTION	PRICE
	0081	Α	IBM PC C Compiler Version 1 (incl. four memory	
			models, math co-processor support, MAKE, symbolic	
			debug, on 3.5in diskettes)	495
	0814	Α	IBM COBOL Compiler V.2.0 (Early Release of IBM	
			COBOL/2, adds support for DOS 3.2, 3.3) Test	
			Period 2 months	900
	4011	A	IBM COBOL Compiler V.1 (W/D 7/10/87)	379
			oution of PC Software" on page 15 for information on repared using the IBM COBOL Compiler.	edistributing
		T		
	9646	Α	VS COBOL Workbench 1.3 by Micro Focus*	3290
	9756	Α	Micro Focus COBOL Runtime License * (authorizes 50	
			copies of applications generated with VS COBOL	
			Workbench)	2250
	4127	A	IBM PC FORTRAN Compiler V.2	385
	0844	A	IBM PC Professional FORTRAN V.1.30, Adds support	
			for DOS 3.2 and 3.3, Test Period 2 months	649
	4200	Α	IBM PC Professional FORTRAN V.1.0 by	
			Ryan-McFarland (W/D 7/10/87)	649
			Golden Common LISP (GCLISP) *	495
	0667	Α	IBM PC Pascal Compiler V.2.02, Adds support for	
			DOS 3.2 and 3.3, Test Period 2 months	385
			IBM PC Pascal Compiler V.2 (W/D 7/10/87)	385
			Turbo Pascal by Borland International (5.25in) *	99.95
	9799	A	Turbo Pascal by Borland International (3.5in, for	
			PC Convertible, Personal System/2) (5/1/87) *	99.95
	9637	A	micro-PROLOG Professional *	395
OPERA ⁻	ΓING	E١	IVIRONMENTS, MENU SYSTEMS	
	1000		IDM Device 1 Computer Dil Company (M/D 5/0/07)	20
60.			IBM Personal Computer FileCommand (W/D 5/8/87)	39
62.			FileCommand II (FLIST-like)	24.95
			IBM PC Fixed Disk Organizer (5.25in)	55 55
	0013	A	IBM PC Fixed Disk Organizer (3.5in+5.25in)	رر
	0768	٨	General Business Facility by Metro-Mark Integrated	
	3700	Λ	Systems * (data entry screens, also entry into BDI	
			document)	1995
			document)	1773
	9384	Δ	Interactive System Productivity Facility Version 2	
	7504		(ISPF/EZ-VU II Development Facility), Warranted,	
			Central service for 90 days or to 1/89	495
GC34	-4103		Application Development Hints and Tips for ISPF	
5554			EZ-VU Development Facility	N/C
	9383	Α	Interactive System Productivity Facility Version 2	/-
	, , , ,	~*	(ISPF/EZ-VU II Runtime Facility), 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)	??

MODEL/FC VP	A DESCRIPTION	PRICE
9385 M 6276656	IBM PC Organizer (req.EZ-VU Runtime), Warranted, Central service for 90 days or to 4/87 Task Director (menu selection for program	165
	execution)	29.95
	TopView Version 1.12, Warranted, Central service for 90 days or to 3/31/87 (3.5in+5.25in)	175
	TopView Version 1.10, Warranted, Central service for 90 days or to 3/31/87 TopView Programmer's Toolkit Version 1.10,	175
	Warranted, Central service for 90 days or to 3/31/87 (order via PCTB)	429
	Microsoft Windows (5.25in) *	99
9793 A	Microsoft Windows for Personal System/2 (3.5in) (5/1/87) *	99
PROGRAMMING	AIDS	
9782 A	Above Disc by Teleware West * (allow software written for LIM EMS 3.2 standard to use disk or	00.05
9219 A	extended memory in lieu of EMS memory adapter) IBM PC Automated Information Management, Central service to 9/86	99.95 429
	CO-Maps by Micro-Focus*, IMS/MFS + CICS/BMS COBOL map creation aid on PC	1000
9752 A	CO-Math by Micro-Focus*, mathematics extensions for COBOL	200
9754 A	CO-Graphics by Micro-Focus*, graphics primitives for COBOL	250
9751 A	CO-Reports by Micro-Focus*, report generation	
	assistance for COBOL	300
9374 A	Cross-System Product/Application Execution (EZ-RUN), Warranted, Central service for 90 days or to 7/87	135
9375 A	Cross-System Product/Application Generation (EZ-PREP, req.ISPF/EZ-VU Runtime), Warranted, Central service for 90 days or to 7/87	1319
6276518 #	DOS File Tracker (locate files, catalog,	
(07/500 #	subdirectory search)	29.95
	DOS File View (browse) DOS Memories (read text scrolled off screen,	24.95
02/000/ 1/	keyboard macros)	39.95
6276594 #	Dos Enhanced Debug	29.95
	Extended BASIC Programming, Incl. Language Extension SystemBASIC (8087 support), BASIC Memory Extender (data storage above 64kb),	29.93
	UnNumber (remove unreferenced line numbers)	34.95

MODEL/FC V	PA	DESCRIPTION	PRICE	
6276530	#	File Facility (extend PATH to open's for all file	24.	0.5
		types)	24.	93
6276606	#	JoyMouse (joystick, mouse control of cursor)	19.	95
6276584	#	Language Extension System - Assember (for MASM		
		V.1)	24.	95
9531	Α	MATH/PC-LIBRARY by IMSL * (FORTRAN subroutines)	440	
6276603	#	PCWATCH (interrupt trace)	49.	95
6276521	#	Print Buffer On-Line (in-memory spooler)	24.	95
6276573	#	Personal Print Control (spooler)	34.	95
4186	Α	IBM PC Print Screen Utility Program	35	
4143	Α	IBM PC Professional Debug Facility (incl. NMI		
		card)	165	
9451	Α	Sidekick by Borland International (5.25in)*	84.	95
9804	Α	Sidekick by Borland International for PC		
		Convertible, Personal System/2 (3.25in) (5/1/87) *	84.	95
6276572	#	Short Hand (keyboard macros)	19.	95
4138	Α	IBM Personal Computer Sort Version 1 (W/D 5/8/87)	189	

See "Redistribution of PC Software" on page 15 for information on redistributing applications which contain the IBM PC Sort program.

6276568 # Source Maintenance System	24.95
9532 A STAT/PC-LIBRARY by IMSL * (FORTRAN subroutines)	440
6276543 # Object Library Maintenance	19.95
6276550 # Structured Assembler Translator	39.95
6276618 # Structured BASIC Facility	54.95
6276575 # SuperC (file comparison with resynchronization)	29.95
6276517 # Utilities I (File Compress and Expand, DOS Command	
Retriever)	19.95
6276520 # Utilities II (File Locator, Backup and Unmark, DOS	
Tree Display)	19.95
6276574 # Utilities III (Sort, Loadram/Saveram, Compare,	
Patch, ERRORLOG)	24.95
6276647 # PC/VSAM (keyed and sequential I/O like VSAM, incl.	
record locking for LANs, record length to 4087	
bytes, file size to 132MB, 5 language interfaces)	149.95
6276648 # PC/VSAM for IBM BASIC Compiler V.1 or V.2	49.95
6276649 # PC/VSAM for IBM C	49.95
6276650 # PC/VSAM for Turbo Pascal	49.95
6276651 # PC/VSAM for IBM Pascal V.1 or V.2	49.95
	49.95
6276652 # PC/VSAM for IBM Macro Assembler V.1 or V.2	
6276662 # PC/VSAM Runtime Code Only (PCVSAM.COM)	24.95
6276663 # PC/VSAM Runtime Code Only (5 copies)	89.95

GENERAL PURPOSE PROGRAMS

MODEL/FC VPA DESCRIPTION

PRICE

GENERAL

9540	A	Andrew Tobias' Managing Your Money *	199.95
6276635	#	Browstext (Browse or Edit files of any size, incl.	
(07//4/		hex display and edit, directory select)	49.95
		Checkbook I/O	34.95
		PC Checkbook	24.95
5669-191		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	6000
6276630	44	CP-Edit (like XEDIT, macro capability)	29.95
		Daily Organizer (appointment calendar)	24.95
		Electric Poet	75
		IBM PC Engineering Simulation Program	
,,,,		(Differential equation solver), Central service to	
		4/87	439
6276528	#	Executive Phone Directory	44.95
6276533	#	Executive Phone Directory with message feature	49.95
6276524	#	Executive Phone Directory build your own	149.95
6276629	#	File Conversion Utility (Convert selected rows and	
		columns of data from ASCII text file to	
		Lotus-retrievable file)	24.95
		Harvard Total Project Manager, Harvard Software *	495
9622	Α	Interactive System Productivity Facility PC Editor	
		(ISPF/EZ-VU Editor) Warranted, Central service for	150
(07(500	,,	90 days or to 6/87	150
		Introductory Editor	19.95
		JustEdit Labtech Notebook (supports IBM DAC Adapter, GPIB	19.95
9300	А	board, MAGIC/L language for lab work) *	895
6276637	₫Ł	Lite Editor (Full screen editor, outliner)	24.95
		MSC/pal 2 (3-D stress and vibration analysis,	24.73
, , ,		static and dynamic) by MacNeal Schwendler *	1995
9593	Α	MSC/mate (mathematical manipulation of matrices)	
		by MacNeal Schwendler *	495
9594	Α	MSC/case (numerical evaluation of structural	
		engineering equations) by MacNeal Schwendler *	895
4051	Α	Personal Editor	109
6276560	#	Personal Editor II (5.25in) (adds multiple	
		windows, DOS commands, better macros to PE I)	49.95
6276701	#	Personal Editor II (3.5in) (adds multiple windows,	
(07////	.,	DOS commands, better macros to PE I)	49.95
		Personal Editor II Reference Book	10
		Personal Scientific Calculator	29.95
62/6322	7 F	Phone Directory On-Line (popup phone directory and dialer)	24.95
6276523	41	Phone Directory and Print Buffer On-Line	39.95
		Plan-A-Year (monthly budgeting)	19.95
		Professional Editor	139
		Professional Font Facility (resident printer	
	"	control, translates printer character output to	
		graphic fonts)	39.95

MODEL/FC VPA	DESCRIPTION	PRICE
	Project Planning and Scheduling	149.95
9410 A	Microsoft Project V.3.0 CMB (contains both 5.25in and 3.5in diskettes) *	395
9356 A	RS/1 by Bolt Beranek and Newman, Central Service for 90 days or to 3/87	2159
6276501 #	STATLIB 1 (12 APL workspaces for statistical analysis and linear programming, req. IBM APL)	149.95
6276539 #	STATLIB 2 (10 APL workspaces for advanced	
9249 A	analysis, req. IBM APL) SuperProject Plus * (5.25in+3.5in)	149.95 495

IBM ASSISTANT SERIES

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

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
4462 A	IBM Project Assistant V.1	195
4477	Upgrade Filing Assistant V.1 to V.2 (through	
	5/15/87)	75
4478	Upgrade Graphing Assistant V.1 or 1.01 to V.2	
	(through 5/15/87)	75
4479	Upgrade Reporting Assistant V.1 to V.2 (through	
	5/15/87)	75
4480	Upgrade Writing Assistant V.1 or 1.01 to V.2	
	(through 5/15/87)	75
4481	Upgrade Planning Assistant V.1 to V.2 (through	
0000	5/15/87)	75
9903	Upgrade Writing Assistant V.1 or 1.01, or	
	Displaywrite 1 to DisplayWrite Assistant (through	100
	5/15/87)	100
	The Assistant Series products listed below are	
	packaged with only 5.25in diskette copies of the	
	programs.	
4306 A	IBM Document Retrieval Assistant	149
	IBM Drawing Assistant	169

DESCRIPTION

PRICE

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
		ADDITIONAL LICENSE, Data Edition V.2	??
		DOCUMENTATION ONLY, Data Edition V.2	??
6061	Α	Reports+ Edition V.2, Warranted, Central service	
		for 90 days or to 2/89 (5.25in)	185
		ADDITIONAL LICENSE, Reports+ Edition V.2	??
0629	С	DOCUMENTATION ONLY, Reports+ Edition V.2	??
6062	Α	Plans+ Edition V.2, Warranted, Central service for	
		90 days or to 2/89 (5.25in)	425
		ADDITIONAL LICENSE, Plans+ Edition V.2	??
0628	C	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	Α	ADDITIONAL LICENSE, Network+ Edition	??
0627	С	DOCUMENTATION ONLY, Network+ Edition	??
6065	A	English Access Edition, Warranted, Central service	
		for 90 days or to 2/89 (5.25in)	395
0616	Α	ADDITIONAL LICENSE, English Access Edition,	??
0630	С	DOCUMENTATION ONLY, English Access Edition,	??
6085	Α	Data Edition V.2 (prereq. for others) Warranted,	
		Central service for 90 days or to 2/89 (3.5in)	255
6075	Α	Reports+ Edition V.2, Warranted, Central service	
		for 90 days or to 2/89 (3.5in)	185
6076	Α	Plans+ Edition V.2, Warranted, Central service for	
		90 days or to 2/89 (3.5in)	425
6077	Α	Network+ Edition (adds data sharing for up to 12	
		PCs) Warranted, Central service for 90 days or to	
		2/89 (3.5in)	395
6079	Α	English Access Edition, Warranted, Central service	
		for 90 days or to 2/89 (3.5in)	395
		101 / 4 days 01 00 2/0/ (0.5111)	
6117		Upgrade PDS Data Edition V.1 to V.2 (5.25in, thru	
011,		11/87)	150
6118		Upgrade PDS Reports+ Edition V.1 to V.2 (5.25in,	130
0110		thru 11/87)	115
6119		Upgrade PDS Plans+ Edition V.1 to V.2 (5.25in,	* * -
		thru 11/87)	220
		OHE 11, 07,	

MODEL/FC	VPA	DESCRIPTION	PRICE
613:		Upgrade PDS Plans Edition V.1 to Plans+ V.2 (5.25in, thru 11/87)	320
109	7	Upgrade PDS Words Edition V.1 to DisplayWrite 4 (5.25in, thru 11/87)	380
612		Upgrade PDS Data Edition V.1 to V.2 (3.5in, thru 11/87)	150
6120		Upgrade PDS Reports+ Edition V.1 to V.2 (3.5in, thru 11/87)	115
612		Upgrade PDS Plans+ Edition V.1 to V.2 (3.5in, thru 11/87) Upgrade PDS Plans Edition V.1 to Plans+ V.2	220
109		(3.5in, thru 11/87) Upgrade PDS Words Edition V.1 to DisplayWrite 4	320
100	•	(3.5in, thru 11/87)	380
1098	8	Upgrade PDS Words Edition V.1 to DisplayWrite Assistant (5.25in+3.5in, thru 11/87)	80
		The following programs are available on 5.25in diskette.	
936	7 A	Data Edition (prereq. for others, enh. 9/85 to allow installation of DisplayWrite) Warranted, Central service for 90 days or to 9/86	275
		Reports+ Edition, Warranted, Central service for 90 days or to 9/86	165
		Graphs Edition, Warranted, Central service for 90 days or to 11/86	225
937	2 A	Words Edition (enh. 9/85 to support revisable interchange with Displaywrite 1, 2, or 3, and spell check with Word Proof) Warranted, Central service for 90 days or to 11/86	165
		Plans Edition, Warranted, Central service for 90 days or to 1/87	165
		Plans+ Edition, Warranted, Central service for 90 days or to 3/87 Data Training Edition, Warranted, Central service	335
		for 90 days or to 9/86 Reports+ Training Edition, Warranted, Central	79
		service for 90 days or to 5/31/87	95
		The following programs are available on 3.5in diskette.	
962	5 A	Data Edition (prereq. for others, enh. 9/85 to allow installation of DisplayWrite) Warranted, Central service for 90 days or to 9/86	275
962	6 A	Reports+ Edition, Warranted, Central service for 90 days or to 9/86	165
		Graphs Edition, Warranted, Central service for 90 days or to 11/86	225
962	7 A	Words Edition Warranted, Central service for 90 days or to 11/86	165

MODEL/FC VE	A DESCRIPTION	PRICE
9628 A	Plans Edition, Warranted, Central service for 90 days or to 1/87	165
9629 A	Plans+ Edition, Warranted, Central service for 90 days or to 3/87	335
Productivii	Y Extensions	
9373 <i>A</i>	Mailing Labels Edition, Central service for 90 days or to 9/85	75
9363 <i>E</i>	Asset Catalog Edition, Central service for 90 days or to 9/85	75
9362 A	Prospect Tracking Edition, Central service for 90 days or to 9/85	75
9188 <i>A</i>	Client Time/Cost Accounting Edition, Central service for 90 days or to 9/85	75
9189 <i>A</i>	Appointment Calendar Edition, Central service for 90 days or to 10/85	75

BUSINESS PROGRAMS

GENERAL

	IBM Cable Data Management System (for IBM Cabling System, order thru IBM Direct) Central service to 1/86 IBM Doctor's Office Manager for the IBM Personal Computer Excelerator V.1.7 (systems analysis) *	450 2749 7500
5785-DFW 9001	Executive Data Link (EDL) for COPICS - file extract RPQ, Central Service to 12/88 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 RPO	2500
5798-RRP	Executive Data Link (EDL) for CMAS/34	2750
5798-RRZ	Executive Data Link (EDL) for System/36 CMAS	2750

MODEL/	FC V	PA	DESCRIPTION	PRICE
			IBM PC Insurance Agency System Member Services (organization membership data	2500
0270	300		base, accounts)	29.95
94	420		PCemas (Educational Management Accounting System)	4995
94	421	A	PCemas Report Generator *	250
6276	614		Programmed Evaluation of Contract Option Strategies	249.95
6276	646	#	Programmed Evaluation of Contract Option Strategies Reference Book	10
6276	666		Real Estate Investment Package	24.95
BPI SYS	TEM:	S		
41	026	A	General Accounting	425
			Accounts Receivable	425
			Payrol1	425
			Job Cost	550
4	030	A	Inventory Control	425
D.,	- Λ.			
DUSINES	S A	עע	ISER SERIES	•
			General Accounting, Warranted, Central Service for 90 days or to 12/31/89 (5.25in)	995
6	055	A	General Accounting, Warranted, Central Service for 90 days or to 12/31/89 (3.5in)	995
			Accounts Payable, Warranted, Central Service for 90 days or to 12/31/89 (5.25in)	995
			Accounts Payable, Warranted, Central Service for 90 days or to 12/31/89 (3/5in)	995
			Accounts Receivable, Warranted, Central Service for 90 days or to 12/31/89 (5.25in)	995
6	057	Α	Accounts Receivable, Warranted, Central Service for 90 days or to 12/31/89 (3.5in)	995
9	702	A	Payroll, Warranted, Central Service for 90 days or to 12/31/89 (5.25in)	995
6	058	A	Payroll, Warranted, Central Service for 90 days or to 12/31/89 (3.5in)	995
9	704	A	Inventory Control Edition (5.25in)	995
			Inventory Control Edition (3.5in)	995
			Order Entry Edition (5.25in)	995
			Order Entry Edition (3.5in)	995
			Information Management Edition (5.25in)	995
6	069	Α	Information Management Edition (3.5in)	525

MODEL/FC V	PA DESCRIPTION	PRICE
	A Network Extension (1 per remote user, to 8 active users), Warranted, Central Service for 90 days or to 12/31/89 (5.25in) A Network Extension (1 per remote user, to 8 active	245
	users), Warranted, Central Service for 90 days or to 12/31/89 (3.5in)	245
IDM DIICTNEG	SS MANAGEMENT SERIES - APPLICATION EDITIONS	
IDM DOSTNER	35 MANAGERENT SERIES - ATTEICATION EDITIONS	
	A General Ledger Edition, Warranted, Central service for 90 days or to 12/88	775
	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
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	773
	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
IBM BUSINES	SS MANAGEMENT SERIES - TRAINING EDITIONS	
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,	95
9205	Central service for 90 days or to 12/88 A Payroll Training Edition, Warranted, Central	
9206	service for 90 days or to 12/88 A Order Entry and Invoicing Training Edition,	95
9207	Warranted, Central service for 90 days or to 12/88 A Inventory Accounting Training Edition, Warranted,	95
	Central service for 90 days or to 12/88	95

PRICE

IBM COPIER MANAGEMENT INFORMATION SYSTEM (CMIS)

CMIS will be withdrawn 4/20/87)

Complete system consists of PC, Terminal Communications Adapter Kit, CMIS Licensed Program, DOS 1.1, Copier Control Device, and Copier Interface Device.

1614	Terminal Communications Adapter Kit (at	
	controlling PC)	860
1677	CMIS Licensed Program (requires DOS 1.1)	2000
6821001	Copier Control Device Kit (at each copier)	
	(Contains Copier Control Device, Cable, and Signal Adapter if required)	
6501	Kit 1 - IBM Series III	1970
6502	Kit 2 - IBM Copier II	1880
6503	Kit 3 - Xerox 660, 720, 813, 840, 914, 1000, 1824, 1860, 2400, 3600-I, 3600-III, 4000, 4500, 5400,	
	5600, 7000	1970
6504	Kit 4 - Xerox 740, Kodak 100, 150, 200, 250	1970
6505	Kit 5 - Xerox 1045, 2600, 3100, 3100LDC, 3107,	
	3109, 3400, 3450	1970
6506	Kit 6 - Xerox 1035, 2300, 2830	1645
6507	Kit 7 - Xerox 8200, 9200, 9400, 9500	1645
6508	Kit 8 - Xerox 1075	1645
6509	Copier Control Device (Spare)	1415
6510	CMIS System Kit (test adapters, cables)	220
6512	CCD-to-Wall Cable, User's Manual (Spare)	110
6513	PC-to-Wall Cable (Spare)	110
6514	CCD-to-Modem Cable (Spare)	110
6515	Signal Adapters for Kit 1 (Spare)	355
6516	Signal Adapters for Kits 2-5 (Spare)	355
276999	IBM Copier Interface Device RPQs	
6801	Copier II	400
6802	Model 10	600
6803	Model 20	600
6805	Model 30	600
6806	Model 40	600
6808	Model 60	600

DESCRIPTION

PRICE

(Non-IBM copier interfaces must be ordered through an appropriate non-IBM vendor.)

Removal	kits:	IBM Standard Third Party Interface	IBM Billing Meter System	IBM Resettable Copy Counter
	Copier II	673027	A278	973086
	Model 10	973024	A736	973086
	Model 30	074001	174932	973086
	Model 40	074001	174932	973086
	Model 60	5988	5989	600604

0784 A BANCstar 4700 Account Opening *

MANAC SYSTEMS; INFORMATION SYSTEMS FOR ATTORNEYS SERIES 500

9509 A Client and Lawyer Financial System *	975
9510 A Client Files, Conflict and Dates Syst	ems * 450
9511 A Law Firm Financial - System *	450
9580 A Litigation Support System Version B >	450

4700 BANKING SOFTWARE

See also "IBM SolutionPac Offerings" on page 27 for the Branch Banking Automation offering which incorporates some of the following products.

0785 A BANCstar 4700 Mortgage Loan *	1995
0786 A BANCstar 4700 Consumer and Commercial Loan *	1995
0787 A BANCstar 4700 Mortgage, Consumer, and Commercial	
Loan *	2995
0788 A BANCstar 4700 Generator (Customization,	
installation aid) *	4500
0793 M BRANCHBANKER 4700 (4700 attach, bank service	
marketing) by Ampersand * (new version) Central	
service 6 mo. notice	500
0790 M Safe Deposit 4700 by Interactive Planning *	800
0791 M Currency Control 4700 by Interactive Planning *	1500
0792 M Loan Loss Control 4700 by Interactive Planning *	1500
· · · · · · · · · · · · · · · · · · ·	

750

PRICE

DATA BASE PROGRAMS

See also the integrated families of programs under "General Purpose Programs," such as "IBM Assistant Series" on page 108, and "IBM Personal Decision Series" on page 109.

9506	Α	Clout (English extension for R:Base) *	249
		Data Base Manager II - The Integrator by Alpha	
		Software Corp. *	295
6276659	#	DB/Editor/Writer II (data bases up to 16MB, macro	
		capability, calculations, can use 8087, record	
		size to 1024 bytes)	64.95
9445	Α	dBASE III Plus 1.1 by Ashton-Tate * (5.25in)	695
		dBASE III Plus by Ashton-Tate * (3.5in)	695
		INFOPC (cardfile database)	49.95
		Javelin V.1.1 *	695
0/00		DRUMI AMTON A	0.50
		REVELATION *	950
		Network REVELATION 4-User Upgrade *	500
9812	A	REVELATION Tutorial *	24.95
9507	Α	R:B 4000 Extended Report Writer *	150
		R:Base Series 5000 with RBEDIT by Microrim *	495
		R:Base 5000 Multi-User by Microrim *	700
		R:Base System V by Microrim, incl. multi-user LAN	
		support *	700
		• •	

GRAPHICS SOFTWARE

See also the integrated families of programs under "General Purpose Programs," such as "IBM Assistant Series" on page 108, and "IBM Personal Decision Series" on page 109. Graphics programs which support specific applications are included under their application heading. Communications programs which support graphics are included under the communications heading.

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
5850	1600 bpi Tape of 5796-TBP	N/C
5851	6250 bpi Tape of 5796-TBP	N/C
5852	3480 Cartridge of 5796-TBP	N/C
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
5858	5.25in diskette of 5796-TBQ	N/C

MODEL/FC	VP	A DESCRIPTION	PRICE
941	1 A	Microsoft Chart V.2.01 COMBO * (contains both	
		5.25in and 3.5in diskettes)	295
		Chart-Master 6.2 by Decision Resources *	375
941	7 A	DIAGRAM-MASTER (org charts, Gantt charts,	
		free-form) by Decision Resources *	345
		Energraphics V.2 by Enertronics Research*	595
2906	b A	GDDM-PCLK V.1.0, adds alternate graphics session	
		to PC 3270 workstation emulators via hotkey, req.	
		host GDDM-PCLKF for CMS or TSO, Test Period 2	50
200	Ω Λ	months, Warranted, Central Service to 5/88 ADDITIONAL LICENSE, GDDM-PCLK V.1.0	38
		DOCUMENTATION ONLY, GDDM-PCLK V.1.0	15
		Graphwriter Basic Set by Graphic Communications *	395
		Graphwriter Combination Set by Graphic	0,70
		Communications *	595
9288	8 A	Graphwriter Extension Set by Graphic	
		Communications *	395
627663	6 #	Lines Plus (Diagramming, drawing with box	
		characters)	24.95
		Multimedia Presentation Aid	24.95
		Overhead Express V.1.11 CMB *	95
		PC Palette	39.95
6276640	0 #	PC Palette Utility (Plot PC Palette files on 737X	10.05
627665	2 4	plotters, additional fonts, ready-made pictures)	19.95
027003.	J 1/	Personal Expression (text editor, font editor, print transparencies and type styles)	29.95
627662	8 #	Picture Draw (Freehand drawing, fonts, simple	20.00
02,002	• "	drafting)	24.95
627650	8 #	Personal Computer Picture Graphics	29.95
		Presentation Creation (print text, imbed graphics,	
		type styles, font editor, picture library)	39.95
		IBM PC SlideWrite	225
627663	1 #	Special Effects with Slides (Use Picture Draw, PC	
		Palette, PC Picture Graphics for fade-in, pan)	24.95
150	8 A	IBM 3270-PC Color Graphics Applications (GGXA)	
		(graphics editor, plotter for 3270-PC/G/GX),	395
151	ο Λ	Warranted, Central service to 12/86 ** IBM 3270-PC Color Graphics Charting (GGXC)	393
131	ים כ	(interactive chart utility for 3270-PC/G/GX),	
		Warranted, Central service 6 mo. notice or 12/86	
		**	395
981	0 <i>A</i>	35MM Express V.4.0 (drive Polaroid Palette from PC	
		data) *	695
CEM SEDIE		BY DIGITAL RESEARCH	
OLN SENIE	.U.	DI DIGITAL NEGLANGII	
		GEM Collection (GEM Write and GEM Paint) *	199
		GEM Desktop *	49.95
		GEM Draw *	249
		GEM Graph * GEM Wordchart *	249 149
900	U E	OHI MOLGCHALE	143

IBM IMAGE SOFTWARE

U8	SU5 .	A	IBM Image Support Facility 2 V.I.I, subroutines	
			for driving scanners, processing images, Test	
			Period 2 months	95
08	306		Upgrade IBM Image Support Facility 2 V.1 to V.1.1	
			(through 1/88)	32
09	21	A	IBM Image Support Facility 2 V.1, subroutines for	
			driving scanners, processing images (W/D 7/10/87)	95
5785 - E	DW		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
61	13	A	IBM ImagEdit (capture image from scanner, scale,	
			rotate, copy, trim, erase, annotate, freehand	
			drawing) Test Period 2 months, Warranted, Central	
			Service for 90 days or to 6/89 (3Q87)	395
97	707		IBM PC Image Processing System, Central service to	
			6/87	310

IBM INFOWINDOW SOFTWARE

See also the section on 'Educational Programs' for specific classes that use ${\tt InfoWindow}.$

5157	A	IBM InfoWindow Control Program V.1.2 (3.5in+5.5in)	
		Test Period 2 months (7/87)	180
2416		Upgrade InfoWindow Control Program V.1.0 to V.1.2	50
5139	A	IBM InfoWindow Control Program V.1.0	180
4504	A	InfoWindow Presentation Editor, Define multimedia presentation, use with Presentation Interpreter, Req. InfoWindow Control Pgm, Central Service for 90 days or 6/89 *	4975
4505	Α	InfoWindow Presentation Interpreter, Display multimedia presentation defined with Presentation Editor, Req. InfoWindow Control Pgm, Central	
		Service for 90 days or 6/89 *	135
3823	A	Video/PAssage Authoring System V.1.0 Warranted,	
		Central Service for 90 days or to 3/89	7200
3822	A	Video/PAssage Presentation System V.1.0 Warranted,	
		Central Service for 90 days or to 3/89	265
6086	A	Video/PAssage Authoring System V.1.1 (2087) Adds	
		support for 2 videodisk players via IEEE-488,	
		Warranted, Central Service for 90 days or to 3/89	7200
6087	A	Video/PAssage Presentation System V.1.1 (2Q87)	
		Adds support for 2 videodisk players via IEEE-488,	
		Warranted, Central Service for 90 days or to 3/89	265

MODEL/FC V	PA DESCRIPTION	PRICE
6088	Video/PAssage Authoring Upgrade Kit to V.1.1 (2087)	95
6089	Video/PAssage Presentation Upgrade Kit to V.1.1 (2087)	35
	A InfoWindow PILOT - Authoring (develop courseware for InfoWindow) Central Service to 1Q89	2050
6095	A InfoWindow PILOT - Presentation Central Service to 1Q89	200
	M Learning System/1 Authoring System (LS/1) Courseware authoring for use with InfoWindow	5000
4503	M Learning System/1 Presentation System (LS/1) For use with InfoWindow	125
MICRO CADAN	A FOR PC/AT	
ויונונט נאשאו	TIONICIAL	
5713-AAL	MICRO CADAM Convenience Kit for the PC/AT, Central Service for 90 days or to 6/3/88	
9001 5868	Asset Registration MICRO CADAM Convenience Kit Machine-Readable	N/C
3000	Material	N/C
4470	MICRO CADAM Convenience Kit Basic License	•
	(includes program documentation, mouse, program-function keyboard, asset-protection chip,	
	interface board)	8000
5713-AAL	MICRO CADAM Licensed Program (only) for the PC/AT, Central Service for 90 days or to 6/3/88	
9001 5858	Asset Registration MICRO CADAM Licensed Program Machine-Readable	N/C
3030	Material	N/C
4469	MICRO CADAM Licensed Program Basic License (includes program documentation, asset-protection chip)	6025
5713-AAN	MICRO CADAM Geometry Interface Program for the PC/AT, Central Service for 90 days or to 6/3/88	
9001 5858	Asset Registration MICRO CADAM Geometry Interface Program	N/C
3030	Machine-Readable Material	N/C
4472	MICRO CADAM Geometry Interface Program Basic License (includes program documentation, asset-protection chip)	1500
5713-AAM	MICRO CADAM Data Transfer Utility, Central Service for 90 days or to 6/3/88	
9001	Asset Registration	N/0
5858	MICRO CADAM Data Transfer Utility Machine-Readable Material	N/C

MODEL/FC VPA DESCRIPTION PRICE						
	MICRO CADAM Data Transfer Utility Basic License (includes program documentation, asset-protection chip)	1250				
IDM DC CTODY	DOADD					
IBM PC STORY	DUAKD					
	IBM PC Storyboard Plus (see also PC PicturePak), Test Period 2 months, Warranted, Central service for 90 days or to 6/89 (6/87)	350				
0999 B	UPGRADE, IBM PC Storyboard to Storyboard Plus (through 3/25/88)	140				
	IBM PC Storyboard (see also PC PicturePak), Warranted, Central service for 90 days or to 3/87 (W/D 7/10/87)	275				
9096 A	PC PicturePak - Eye Openers (Storyboard extensions) *	195				
	PC PicturePak Holidays (Storyboard images for 18 holidays) *	195				
	PC PicturePak The PC Family (Storyboard images of PC hardware and software) *	195				
9814 A	PC PicturePak - TypeStyles (18 Storyboard typefaces) *	195				
See "Redistrik	VIRTUAL DEVICE INTERFACE See "Redistribution of PC Software" on page 15 for information on redistributing applications containing VDI driver modules.					
	IBM PC Graphical File System (ANSI metafile/GKS) (W/D 5/8/87)	189				
4203 A	IBM PC Graphical Kernel System (ANSI GKS) (W/D 5/8/87)	319				
	IBM PC Graphics Development ToolKit V.1.2, Test Period 2 months	495				
S68X-2280	Display Adapter 8514/A 1.20 VDI Drivers for Graphics Development Toolkit V.1.2	30				
0922 B	UPGRADE, Graphics Development Toolkit V.1.1 to V.1.2 (through 12/87)	250				
	See "Redistribution of PC Software" on page 15 for information on redistributing programs prepared using the Graphics Development Toolkit V.1.10.					
0076 A	IBM PC Graphics Development ToolKit Version 1.10	405				
4204 A	(order via PCTB) (W/D 10/7/87) IBM PC Plotting System (VDI system) (W/D 5/8/87)	495 245				

MODEL/FC VPA DESCRIPTION PRICE

O456 IBM 5279 Color Display VDI 1.10 Driver (for Graphics Development Toolkit 1.10, Standalone) N/C

INDUSTRIAL SOFTWARE

The following vendor-logo program offerings are for use with IBM 5531, 7531, and 7532 Industrial Computers.

Quantity discounts are via a separate Industrial Computer Exhibit to the QDA. QDA categories below are from that Exhibit, not the standard PC Exhibit.

5793 - AGN	В	!Barsoft by ASAP Systems (Barcode Label Design and Printing)	
9080	В	Asset Registration	N/C
6500	В	Barsoft Software	995
6501	В	Barsoft Manual	75
		CAMM (Computer-Aided Manufacturing Management)	N7 / G
		Asset Registration	N/C
6504	A	CAMM System Kit (required, prereq. for all other features)	200
6505	٨	CAMM DSE Analytical Module, Standard Graphics	500
		CAMM DSE Analytical Module, Enhanced Graphics	950
		CAMMGraph Build/Display, Enhanced Graphics	4100
		CAMMGraph Display, Enhanced Graphics	1900
		Offline Controller/Setup, Allen-Bradley	500
		Offline Controller/Setup, Analogic	500
		Offline Controller/Setup, General Electric	500
		Offline Controller/Setup, Modicon	500
		Offline Controller/Setup, Texas Instruments	500
		Offline Controller/Setup, Turnbull Control Systems	500
		Floor Manager (reqd for each operator station)	1250
		Device Driver, Allen-Bradley	500
		Device Driver, Analogic	500
		Device Driver, General Electric	500
		Device Driver, Modicon	500
6635	Α	Device Driver, Texas Instruments	500
6636	Α	Device Driver, Turnbull Control Systems	500
6517	Α	Extra CAMM Manuals, Allen-Bradley	45
6518	Α	Extra CAMM Manuals, Analogic	45
6519	Α	Extra CAMM Manuals, General Electric	45
6529	Α	Extra CAMM Manuals, Modicon	45
6530	Α	Extra CAMM Manuals, Texas Instruments	45
6520	Α	Extra CAMM Manuals, Turnbull Control Systems	45
5793-AHB	В	Allen-Bradley Communication Protocol Program for	
		CAMM using ARTIC	
		Asset Registration	
		One-Time Charge	500
6640	В	User's Guide (Additional)	65

MODEL/FC V	/PA	DESCRIPTION	PRICE
5793-AGZ	В	General Electric Communication Protocol Program for CAMM using ARTIC	
9080	В	Asset Registration	
		One-Time Charge	500
6648	В	User's Guide (Additional)	65
		Gould Modicon Communication Protocol Program for CAMM using ARTIC	
		Asset Registration	
		One-Time Charge	500
		User's Guide (Additional)	65
		Texas Instruments Communication Protocol Program for CAMM using ARTIC	
		Asset Registration	F00
		One-Time Charge User's Guide (Additional)	500 65
0042	В	user's Guide (Additional)	63
		Cribware by Applied Control Software (Tool Crib Inventory)	
		Asset Registration	N/C
	-	Cribware Software	2500
6551	С	Cribware Manual	53
5793 - AGP	C	Easylabel by Tharo Systems (Barcode Label Design and Printing)	
9080	C	Asset Registration	N/C
		Easylabel Software	2500
6550	С	Easylabel Manual	125
5793-AGF	С	Energy 2.0 by Systems Associates for Butler, Elan, Futronix, Honeywell, and OPTO-22 subsystems	
9080	С	Asset Registration	N/C
		Energy 2.0 Software	6000
6586	С	Extra Energy 2.0 Manuals	55
5793-AGQ	С	The Fix by Intellution (Process Control, Monitoring, Digital and Analog I/O)	
9080	C	Asset Registration	N/C
6536	С	The Fix Software with EPROM for IBM Color/Graphics Adapter	4500
6537	C	The Fix Software with EPROM for IBM Enhanced	4300
0337	U	Graphics Adapter	4500
6595	С	BASIC Language Data Base Access for The Fix	395
		BASIC Language Data Base Access User's Guide,	
		Additional	28
6596	С	C Language Data Base Access for The Fix	395
		C Language Data Base Access User's Guide, Additional	28
6507	C	Online Spreadsheet Interface for The Fix	250
		Online Report Package for The Fix	150
		Historical Trending for The Fix	650
		Historical Trending User's Guide, Additional	28
		Engineering/Development portion of The Fix	
		Asset Registration	N/C

MODEL/FC V	VP.	A DESCRIPTION	PRICE
		Engineering/Development Software with EPROM for IBM Color/Graphics Adapter	2100
6523	C	Engineering/Development Software with EPROM for IBM Enhanced Graphics Adapter	2100
		Runtime portion of The Fix	
		Asset Registration	N/C
6502	С	The Fix, Runtime, with EPROM for IBM	
	_	Color/Graphics Adapter	2675
6503	С	The Fix, Runtime, with EPROM for IBM Enhanced	
6507	~	Graphics Adapter	2675
		IBM Digital/Analog Adapter Device Driver	795
		Arcosystems Device Driver	795
		Allen-Bradley Device Driver	1095
		Data Translation Device Driver Gould Modicon Device Driver	795 1095
		Opto 22 Device Driver	795
		OEM Device Driver Tool Kit, The Fix	1250
		User's Guides, Set, The Fix	1250
		User's Guide, IBM DACA, The Fix	28
		User's Guide, Arcosystems, The Fix	28
		User's Guide, Allen-Bradley, The Fix	28
		User's Guide, Data Translation, The Fix	28
		User's Guide, Gould Modicon, The Fix	28
		User's Guide, Opto 22, The Fix	28
5793-ACW	С	Fleet Maint (Vehicle Maintenance Scheduler)	
		Asset Registration	N/C
		Fleet Maint Software	3950
6571	С	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	С	Loopworks by Equinox Data (Process Monitoring and	
		Control, Digital/Analog I/O)	
		Asset Registration	N/C
		Loopworks Software	2995
6535	С	Loopworks Manual	105
5793 - AFD	C	MEDIA-FLEX (Maintenance Work and Parts Inventory	
0001	C	Management)	NI/C
		Asset Registration Maintenance Management Software	N/C 5995
		Maintenance Management Manual, extra	113
		MEDIA-FLEX (Preventive Maintenance Management)	113
		Asset Registration	N/C
		Preventive Maintenance Software	3995
		Inventory Module Upgrade (Makes 5793-AGB	
		equivalent to 5793-AFD)	3000
6557	C	Preventive Maintenance Manual, extra	113

MODEL/FC VPA	DESCRIPTION	PRICE
5793-AFF C	Micro Maint (Maintenance Scheduler) by Diagonal	
0001 C	Data Assat Pasistration	NI/C
	Asset Registration Micro Maint Software	N/C 4950
		53
	Micro Maint Manual, extra CAMM Interface Module	550
6600 0	CAMM Interface module	330
	Minute Man (Part Profile Generator)	
	Asset Registration	N/C
	Minute Man Software	4990
6566 C	Minute Man Manual, extra	53
5793-AFA B	Quality Alert (Statistical Quality Control)	
	Asset Registration	N/C
	Quality Alert Software	795
	Quality Alert Manual, extra	38
5601-053 D	Remote Terminal Interface Utility Programs for the	
	IBM Industrial Computers (Support Remote Terminal	
0.001 D	Interface Adapter for industrial PCs into 7552)	N/C
	Asset Registration One Time Charge	240
	Diskettes and manual	N/C
3099 D	Diskettes and manual	N/ C
5793-AEZ B	SQCpack (Statistical Quality Control)	
	Asset Registration	N/C
	SQCpack Software	595
6555 B	SQCpack Manual, extra	38
6554 B	SQCpack Instruction Videotapes (VHS, 12 tapes)	5600
5793-ACX C	Taylor Industrial Software (Controller Programmer)	
	Asset Registration	N/C
	Allen-Bradley PLC-2 Ladder Logic Documentation	117 0
03,72 0	Package	2500
6601 C	Allen-Bradley PLC-2 Up/Downline Loading	350
	Allen-Bradley PLC-2 Wiring Diagram Generator	500
	Draftec	950
	Draftec User's Guide (Additional)	55
	User's Guide (Additional)	55
	Cable to Connect Industrial PC to Allen-Bradley	
	Data Highway	85
6579 C	Cable to Connect Industrial PC to Allen-Bradley	
	Terminal	75
5793-AHH R	Taylor Industrial Software (Controller Programmer)	
	Asset Registration	N/C
	Allen-Bradley PLC-2 Offline Programming	1250
	User's Guide (Additional)	55
	Cable to Connect Industrial PC to Allen-Bradley	
2300 1	Data Highway	85
6579 B	Cable to Connect Industrial PC to Allen-Bradley	
	Terminal	75
5793-AGC C	Taylor Industrial Software (Controller Programmer)	

MODEL/FC VP	A DESCRIPTION	PRICE
6573 C	Asset Registration Allen-Bradley PLC-3 Software User's Guide (Additional)	N/C 2500 55
	Draftec	950
	Draftec User's Guide (Additional)	55
	Cable to Connect Industrial PC to Allen-Bradley Data Highway Cable to Connect Industrial PC to Allen-Bradley	85
	Cable to Connect Industrial PC to Allen-Bradley Terminal Allen-Bradley PLC-3 Ladder Logic Documentation	75
0303 6	Package	2500
6602 C	Allen-Bradley PLC-3 Wiring Diagram Generator	500
	Taylor Industrial Software (Controller Programmer)	N / G
	Asset Registration	N/C
	Allen-Bradley 1774-PLC Ladder Logic Documentation Package Allen-Bradley 1774-PLC Ladder Logic User's Guide	1250
ОООО В	(Additional)	55
6603 B	Cable to Connect Industrial PC to Allen-Bradley	
	Data Highway	85
6579 B	Cable to Connect Industrial PC to Allen-Bradley Terminal	75
5793-AHD B	Taylor Industrial Software (Controller Programmer)	
	Asset Registration	N/C
	Modicon Micro-84 Documentation Package	1250
	Cable to Connect Industrial PC to Modicon P190	75
6619 B	User's Guide (Additional)	55
	Taylor Industrial Software (Controller Programmer)	
	Asset Registration	N/C
6607 B	Modicon Micro-84 Ladder Logic Documentation	1050
6612 D	Package Modican Wining Disagram Consenter	1250 500
	Modicon Wiring Diagram Generator Draftec	950
	Draftec User's Guide	55
	Cable to Connect Industrial PC to Modicon P190	75
	User's Guide (Additional)	55
5793-AHF C	Taylor Industrial Software (Controller Programmer)	
	Asset Registration	N/C
6611 C	Modicon 584/884/984 Ladder Logic Documentation Package	2500
	Modicon Wiring Diagram Generator	500
	Modicon 584/984 Up/Downline Loading	350
	Draftec	950
	Draftec User's Guide (Additional)	55
	Cable to Connect Industrial PC to Modicon P190	75
6612 C	User's Guide (Additional)	55
	Taylor Industrial Software (Controller Programmer) Asset Registration	N/C

MODEL/FC V	VP#	A DESCRIPTION	PRICE
6616	С	Texas Instruments Ladder Logic Documentation	
		Package	2500
6617	С	User's Guide (Additional)	55
5601-052	D	Language Extensions for the IBM 7552 (BASIC, C, ASM, Pascal subroutines for orderly shutdown on power loss, set alarms, read/write CMOS)	
9001	D	Asset Registration	N/C
4591	D	One-Time Charge	395
5184	D	Publication and diskettes	N/C
ARTIC SUPP	OF	RT SOFTWARE	
	-		
5669-179	В	Communication Subsystem V.1.1 for ARTIC, incl. User's Guide	
9001	В	Asset Registration	N/C
5137	В	Distribution on 5.25in Diskette	N/C
5146	В	Distribution on 3.5in Diskette	N/C
4638	В	One-Time Charge	475
		User's Guide, ARTIC Communications Subsystem	85
5669-177	D	IBM Realtime Control Program DOS Support (ASM macros, utilities)	
9001	D	Asset Registration	N/C
		One-Time Charge	80
		5.25in Diskette	N/C
		3.5in Diskette	N/C
5669-176	В	IBM Realtime Interface Co-Processor Developer's Kit (high-level language interface for BASIC, PASCAL, C, examples, debugger, format dump)	
9001	В	Asset Registration	N/C
4639	В	One-Time Charge	1850
5138	В	5.25in Diskette	N/C
5149	В	3.5in Diskette	N/C
5601-060	В	IBM Realtime Interface Co-Processor C Language Support	
9001	В	Asset Registration	N/C
		One-Time Charge	430
5201	В	5.25in Diskette	N/C
5020	В	3.5in Diskette	N/C

INTEGRATED PROGRAMS

See also the integrated families of programs under "General Purpose Programs," such as "IBM Assistant Series" on page 108, and "IBM Personal Decision Series" on page 109.

MODEL/FC VPA	DESCRIPTION	PRICE
9503 A Electric	Desk by Electric Software *	345
9805 A Electric	Desk (Academic Edition) on 5.25in	
diskette	*	63.95
	Desk (Academic Edition) on 3.5in diskette	
**		63.95
	Desk (Academic Edition) on PCjr cartridge	
*		86
9694 L Electric	Desk (Academic Edition) User's Guide *	12.95
0446 4 7		
	k II 1.1 by Ashton-Tate *	695
_	c 4 Release 1.0 by Sorcim * (5.25in+3.5in)	495
9448 A Symphony	1.2 by Lotus Development *	695
9512 A Symphony	Spelling Checker *	139
9513 M Symphony	Text Outliner	139
9047 A 1-2-3 Ve	rsion 2.01 by Lotus Development (5.25in)	495
9769 M 1-2-3 Ve	rsion 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 108, and "IBM Personal Decision Series" on page 109.

GENERAL

9757	A	Electronic Document Exchange (EDE) Reformats business documents into ANSI X.12 *	5000
9104	Α	Microsoft Word V.3.1 CMB (contains both 5.25in and	3000
		3.5in diskettes) *	450
9161	A	MultiMate by MultiSoft *	495
4179	Α	IBM PC PCWriter (5520-like) (W/D 5/8/87)	215
6276613	#	PC Print (create, edit fonts, sideways print,	
		print control)	24.95
6276615	#	Personal Correspondence Manager (menus for	
		SCRIPT/PC, PE, Word Proof)	39.95
6276604	#	PrintDW (convert DW1, DW2 printer streams to pure	
		ASCII)	19.95
6276638	#	Script/PC II (compatible with Script/VS R.3 GML)	99.95
6276645	#	Script/PC II Reference Book	20
6276514	#	Select-a-Font (9 graphics fonts, print controls)	24.95
9453	Α	Sideways *	69.95
9444	Α	Sign-Master by Decision Resources, Inc. *	245
6276536	#	The StarProof Bridge (use WordProof to check	
		WordStar files)	19.95
9505	A	ThinkTank *	195

MODEL	/FC	VP/	A DESCRIPTION	PRICE
	9787	Α	Turbo Lightning (dictionary lookup, spelling	
			checker (3.5in) for Personal System/2) (5/1/87) *	99.95
	9542	Α	T3 Scientific Word Processor by Triad Computing *	595
	9409	Α	Word III/Samna *	550
	4071	A	Word Proof	65
627	6564	#	Word Proof II (5.25in, spell check, synonyms,	
			editor, anagrams)	39.95
627	6700	#	Word Proof II (3.5in, spell check, synonyms,	
			editor, anagrams)	39.95
	9266	Α	WordPerfect 4.2 by Satellite Software	
			International (5.25in) *	495
	9785	Α	WordPerfect by Satellite Software International	.,,,
			(3.5in, for Personal System/2) *	495
			(3.31m, 101 10130mil bystom/2)	773
DESKTO	D DI	IRI	_ISHING	
DESKIO	1 1 0	ועי	-13111NU	
	0701	٨	PageMaker (page layout and electronic pasteup,	
	7/7 1	A	5.25in) *	695
	0707			693
	9/94	А	PageMaker for Personal System/2 (page layout and	605
			electronic pasteup, 3.5in) (5/1/87) *	695
TDM DC	DIC	חו	AVUNITE CENTEC	
IBM PC	П12	۲L	AYWRITE SERIES	
÷	0007		TDM DC Discillation / (F OF to discharge)	
	9904	Α	IBM PC DisplayWrite 4, (5.25in diskettes)	
	0010		Warranted, Central Service for 90 days or to 3/88	495
	9913	A	IBM PC DisplayWrite 4, (3.5in diskettes)	
			Warranted, Central Service for 90 days or to 3/88	495
			ADDITIONAL LICENSE, IBM PC DisplayWrite 4	495
			DOCUMENTATION ONLY, IBM PC DisplayWrite 4	495
	9905		Upgrade DisplayWrite 3 V.1.1 (5.25in) to	
			DisplayWrite 4 (through 7/87)	75
	9914		Upgrade DisplayWrite 3 V.1.1 (3.5in) to	
			DisplayWrite 4 (through 7/87)	75
	9918		Upgrade DisplayWrite 3 V.1.0 (5.25in) to	
			DisplayWrite 4 (through 7/87)	175
	9919		Upgrade DisplayWrite 3 V.1.0 (3.5in) to	
			DisplayWrite 4 (through 7/87)	175
	6070	Α	DisplayWrite Index Support (index, table of	
			contents for DW3 and DW4)	125
	4190	Α	IBM PC DisplayWrite Legal Support	179
			IBM PC DisplayWrite Medical Support	179
			IBM PC DisplayWrite 3, V.1.1 (5.25in diskettes)	450
			IBM PC DisplayWrite 3, V.1.1 (3.5in diskettes)	450
S126-			DisplayWrite 2 template for use on 3270-PC	.30
	9903		Upgrade Writing Assistant V.1 or 1.01, or	.50
			Displaywrite 1 to DisplayWrite Assistant (through	
			5/15/87)	100
				100

As of April 6, 1987

MODEL/FC VP	A DESCRIPTION	PRICE
5799-BKE 2105	Host-DisplayWriter Document Interchange (HDDI) Initial License Charge Monthly Charge	1165 265
MICROPRO SERIES		
9573 A	WordStar Professional * WordStar 2000 * WordStar 2000 Plus *	495 495 595

DESCRIPTION

PRICE

PRICE

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
G320-0151 G520-5024	Technical Coordinator's Guidelines Administrative Tools for the Technical Coordinator Role of a Workstation Resource Center Workstation Resource Center Planning and	N/C N/C 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

EXECUTIVE DIRECTION

G520-4233	Executive Brochure	N/C
G320-0735	Presentation Guide	N/C
G320-0736	Assessment Guide	N/C

As of April 6, 1987

MODEL/FC VP	A DESCRIPTION	PRICE
GV21-5007 ZV20-8537 G320-0693 G520-5037	Videodisc Videotape Presenter's Guide Facts Folder	130 N/C N/C N/C
SUPPORT ORG	ANIZATION	
G320-0737 G320-0738	Presentation Guide Assessment Guide	N/C N/C
PLANNING FO	R USER NEEDS	
G320-9301 G320-9302 G320-9303	Presentation Guide Assessment Guide Implementation Guide	N/C N/C N/C
JUSTIFICATI	ON	
G320-9284 G320-9285 G320-9286 G320-9287	Presentation Guide Assessment Guide Implementation Guide User's Guide	N/C N/C N/C
WORKSTATION	N MANAGEMENT	
G320-0716 G320-0721	Presentation Guide Assessment Guide	N/C N/C
ACCESS TO D	ATA	
G320-9366 G320-9367	Presentation Guide Assessment Guide	N/C N/C

SUPPORT PUBLICATIONS - PC SEMINAR PROCEEDINGS

MODEL/FC VF	PA DESCRIPTION	PRICE
	Publications listed below as no charge (N/C) are typically free when ordered in reasonable quantities from your IBM Marketing Representative.	
G320-9307	IBM PC Seminar Proceedings V.1.2DOS 2.0 and 1.1 Comparison, 8087, Compatibility Guidelines, Macro Assembler	N/C
G320-9308	IBM PC Seminar Proceedings V.1.3DOS 2.1, 2.0, and 1.1 compared, PCjr Architecture and Compatibility, Cartridge BASIC, Personal	1., 0
G320-9309	Communication Mgr IBM PC Seminar Proceedings V.2.1Software support center, International compatibility requirements,	N/C
G320-9310	PC Cluster Program IBM PC Seminar Proceedings V.2.2Software support center, International compatibility requirements,	N/C
G320-9311	PC Cluster Program IBM PC Cluster IBM PC Seminar Proceedings V.2.3PC Cluster, PCjr Cartridges, Sort 1.00, FORTRAN 1.00, Pascal 2.00	N/C N/C
G320-9312	IBM PC Seminar Proceedings V.2.4PC/AT Architecture and Compatibility, DOS 3.0	N/C
G320-9313	IBM PC Seminar Proceedings V.2.5IBM PC Network Overview, Hardware, NETBIOS, and Program	N/C
G320-9314 G320-9315	IBM PC Seminar Proceedings V.2.6TopView IBM PC Seminar Proceedings V.2.7Professional Debug Facility	N/C N/C
G320-9319	IBM PC Seminar Proceedings V.2.8PC Network SMB Protocol	N/C
G320-9316 G320-9317	IBM PC Seminar Proceedings V.2.9IBM PC Xenix IBM PC Seminar Proceedings V.2.10Graphical Kernel System, File System, Plotting System, Professional FORTRAN, Data Acquisition Adapter, GPIB Adapter	N/C
G320-9318	IBM PC Seminar Proceedings V.2.11Enhanced Graphics Adapter	N/C
G320-9320	IBM PC Seminar Proceedings V.3.1PC Information Panel (3295)	N/C
G320-9321	IBM PC Seminar Proceedings V.3.2BASIC Compiler 2.0, memory information, modular programming, ISAM files, library manager	N/C
G320-9322	IBM PC Seminar Proceedings V.3.3IBM PC C Compiler	N/C
G320-9323 G320-9324	IBM PC Seminar Proceedings V.3.4IBM Asynchronous Communication Server Protocol IBM PC Seminar Proceedings V.3.5IBM PC Voice	N/C
G320-9325 G320-9326	Communications Option IBM PC Seminar Proceedings V.4.1IBM PC Xenix V.2 IBM PC Seminar Proceedings V.4.1IBM PC System Extensions (incl. DOS 3.2, LAN 1.1, PC 3270	N/C N/C
G320-9327	Emulation V.2), IBM PC Enhanced Keyboard IBM PC Seminar Proceedings V.4.3IBM PC	N/C
	Convertible	N/C

DESCRIPTION

PRICE

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

SUPPORT PUBLICATIONS - OPTIONS AND ADAPTERS TECHNICAL REFERENCE

The following manual covers these options and adapters:

Expansion Unit Monochrome Display Color Display Monochrome Display/Printer Adapter Color Graphics Monitor Adapter Color Printer Compact Printer Parallel Printer Adapter 5.25in Diskette Drive 5.25in Diskette Drive Adapter Asynchronous Communications Adapter Fixed Disk Drive Adapter 64/256KB Memory Option Slimline Diskette Drive Graphics Printer SDLC Adapter Cluster Adapter Game Control Adapter 10MB Fixed Disk Drive 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

MODEL/FC	VP	A DESCRIPTION	PRICE
9946	5	Update Options and Adapters (4865 -001 and -002, 3.5in external diskette drive adapter) (order via PCTB)	5.95
3093	3 a	Options and Adapters (Half-Height 5.25in Diskette	3.93
3544		Drive, PC and PC/XT) (order via PCTB) Options and Adapters (PC/AT 128/640KB Memory	5.95
		Expansion) (order via PCTB)	5.95
3075	a	Update Options and Adapters (PC/AT 512KB/2MB Memory Expansion) (order via PCTB)	5.95
SS34-0008	3	Options and Adapters (256KB Memory Expansion and	
3215	5	Type 3 Diskette Drive) (order via PCTB) Update Options And Adapters (PC/XT 286 Fixed Disk	9.95
2006	,	and Diskette Drive Adapter) (order via PCTB)	6
3208	•	Update Options And Adapters (20MB Fixed Disk Drive for PC/XT models 286, 268, 278, 089) (order via	
SS34-0011	i	PCTB) Options and Adapters (Voice Communications	7
		Adapter) (order via PCTB)	5.95
S229-9606	5	Options and Adapters Binder (order via PCTB)	7.45
SUPPORT P	UBL	ICATIONS - HARDWARE MAINTENANCE AND SERVICE	
3087	7 а	Hardware Maintenance & Service (Manual and Advanced Diagnostic Diskette) PC, PC/XT, PC/AT, Portable (order via PCTB)	195
3063	3 a	Update Hardware Maintenance & Service (3.5in	F 0F
3109) a	Internal Diskette) (order via PCTB) Update Hardware Maintenance & Service (640KB	5.95
		motherboard PC/XT models 089, 268, 278) (order via PCTB)	9.95
3100) a	Update Hardware Maintenance & Service (8MHz	
3370) a	motherboard PC/AT model 339) (order via PCTB) Hardware Maintenance and Service Supplement -	9.95
		3270-PC/AT	65.75
		Hardware Maintenance and Service Supplement - 5171T PC/AT	4
0111	L	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	3 a	Hardware Maintenance and Service - Multiprotocol	
8024	ίa	Communications Adapter Hardware Maintenance and Service - PC/AT Store	15.50
3211		Loop Adapter Hardware Maintenance and Service Update - PC/XT	17
		286 (order via PCTB)	9.95
S229-9605	Ō	Hardware Maintenance and Service Binder (order via PCTB)	7.60

PRICE

45

SUPPORT PUBLICATIONS - HARDWARE MAINTENANCE REFERENCE

3088	а	Hardware Maintenance Reference (removal,	
		replacement, adjustment instructions for PC, XT,	
		AT, Portable) (order via PCTB)	150
3064	а	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	а	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	а	Technical Reference Manual - IBM PC/AT model 239	
		and 8MHz motherboard system units (order via PCTB)	105
3099	а	Technical Reference Manual Update (Update	
		3099/6280099 for 8MHz motherboard PC/ATs, esp.	
		m339) (order via PCTB)	49.75
3007	а	Technical Reference Manual Supplement - 5171T	
		PC/AT	5.25
59X9965		Technical Reference Manual Update (Convertible	
		Speech Adapter)	??
8017	а	Technical Reference Manual - Multiprotocol	
		Communications Adapter	11

SUPPORT PUBLICATIONS - OTHER

months

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

0930	ibh rc bos 5.5 lechnical kelerence hanual	. 00
4213	IBM PC DOS Technical Reference Manual (all	
	releases prior to 3.3) (order via PCTB) (W/D	
	7/10/87)	109
6690 a	DOS 1.1 Reference Manual (spiral bound)	20
5280107	System Extension Installation and Planning Guide	N/C
0826	A BASIC 3.3 Reference Manual (1Q88) Test Period 2	

As of April 6, 1987

MODEL/FC VPA	A DESCRIPTION	PRICE
0075	BASIC 3.2 Reference Manual and binder (order via	
	PCTB)	45
	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

DESCRIPTION

PRICE

MODEL/FC VPA DESCRIPTION

PRICE

OTHER SOFTWARE

CP/M-86

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

UNIX DIALECTS

PC/INTERACTIVE EXECUTIVE

9358	A	PC/Interactive Executive (UNIX-like) V.1.1 by	
		Interactive Systems, Warranted	989
6317009		Upgrade V.1.0 to V.1.1 (through 12/31/85)	40
9397	Α	IX CONNEXION Compiler (DIBOL), Central service to	
		7/87	850
9398	Α	IX CONNEXION Runtime (DIBOL), Central service to	
		7/87	425
9214	A	Interactive FORTRAN (INFORT), Central service to	
		7/86	275
9217	A	Interactive Network and Message System	
		(INNET/INMAIL/FTP), Central service to 7/86	329
9233	A	INword for PC/IX, Central service to 7/87	475
9343	A	IX Integrated WORD/MATH, Central service to 7/87	659
9350	Α	IX RM/COBOL Compiler and Run Time Interpreter by	
		Ryan McFarland, Central service to 7/87	825
9351	Α	IX RM/COBOL Run Time Interpreter by Ryan	
		McFarland, Central service to 7/87	249
9393	A	IX UltraCalc, Central service to 7/87	350
6135	A	PC Interface for IBM IX/370	??

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	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	475
SV21-8081	Using INed	19

MODEL/FC VP	A DESCRIPTION	PRICE
SV21-8086	Using INmail/INnet/ftp/Connect	24.50
SN20-9782	Operating Systems Extensions User's Guide	17.75
9939 A	IBM PC Xenix Software Development System V.2	
	(incl. publications listed below) Warranted,	
	Central Service 6 mo. notice or to 10/87	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
9941 A	IBM PC Xenix Text Formatting System V.2 (incl.	
	publication listed below) Warranted, Central	100
GE101 0000	Service 6 mo. notice or to 10/87	199
SV21-8080	IBM PC Xenix Text Formatting System V.2 Guide	23.75
9615 A	IX CONNEXION Compiler (DIBOL) for Xenix, Central	
7015 h	service to 7/87	975
9616 A	IX CONNEXION Runtime (DIBOL) for Xenix, Central	,,,
	service to 7/87	500
9392 A	IX Integrated WORD/MATH for Xenix, Central service	e
	to 7/87	800
9394 A	IX UltraCalc for Xenix, Central service to 7/87	395
9613 A	IX 3270-PLUS (3270 emulation, multi-session SDLC)	•
	XENIX 1.0 only, by Rabbit Software, Central	
	Service to 4/88	995

SERIES/1 PC OPERATING SYSTEMS

For associated hardware, see "Processors - Series/1 Versions" on page 57. For associated Series/1 applications, see your IBM Marketing Representative.

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.	
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	
9764	Asset registration	750
2098	Media distribution and process charge, Version 5.1	21
2177	Media distribution and process charge, Version 5.2	21

MODEL/FC VPA PRICE DESCRIPTION RPS on the 4950 is supported for application execution only. Application development under RPS on the 4950 is not supported. 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 Asset registration 2800 9766 2122 Media distribution and process charge, Version 7.1 73 Media distribution and process charge, Version 7.2 73 2175 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

VM/PC

For associated hardware, see "Processors - PC/XT/370 and PC/AT/370 Versions" on page 56.

VM/PC OPERATING SYSTEM

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
7041		VM/PC 2 Primer	25
5664-319		IBM VM/PC Host Server V.2 (VMPCSERV) Warranted,	
		Central Service to 12/87	
9001		Asset Registration	N/C
5558		9/1600 bpi tape	N/C
5559		9/6250 bpi tape	N/C
4650		One Time Charge Option	2000
4651		Monthly Charge Option	135
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
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
4174		VM/PC Primer	18
•			. — -

	MODEL/FC VP	A DESCRIPTION	PRICE
	5798-DTL	TSO Host Server for PC/370 (TSOSERV), Central service to 7/86	2420
	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	
	5799-CED	DOS programs) VM/PC Toolkit-Host Programs for the AT/370 (PRPQ P81011, Async VMPCSERV on tape, Host REXX bindings	405
	5799-CEC	in VDI syntax to GDDM) VM/PC Toolkit-VDI Graphics for the AT/370 (PRPQ P81014, High-level language bindings to VDI for VS FORTRAN, Pascal/VS, REXX, Assembler H for VM/PC	500
		programs)	460
-	SC28-1391 SC28-1390	TSOSERV Program Description and Operations TSOSERV User's Guide	4.50 4.50

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

SC26-4120	VM/PC System/370 Language Supplement (Compiler	
	implementation under VM/PC)	6
5668-899	APL2 (not for development, APL character set not	
	supported)	
3020	Monthly Charge Option	49
3021	One-Time Charge Option	735
5748-AP1	VS APL (not for development, APL character set not	
	supported)	
3011	Monthly Charge Option	49
3012	One-Time Charge Option	735
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	

MODEL/FC VF	PA DESCRIPTION	PRICE
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	00
3035	One-Time Charge Option	30
5748-F03 3000	VS FORTRAN Compiler and Library	17
3006	Monthly Charge Option One-Time Charge Option	17 816
5748-LM3	VS FORTRAN Library	010
3001	Monthly Charge Option	4
3007	One-Time Charge Option	192
5668-903	VS FORTRAN Interactive Debug	172
3006	Monthly Charge Option	24
3010	One-Time Charge Option	1152
5668-011	IIAS	1132
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	(0
3015 3016	Monthly Charge Option One-Time Charge Option	1250
5796-PNQ	Pascal/VS	1250
3025	Monthly Charge Option	11
3028	One-Time Charge Option	554
5734-PL3	PL/I Optimizing Compiler and Lib.	JJ4
3000	Monthly Charge Option	21
3005	One-Time Charge Option	1008
5734-LM5	PL/I Transient Library	2000
3001	Monthly Charge Option	4

MODEL/FC VF	A DESCRIPTION	PRICE
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

4680 OPERATING SYSTEM FOR 5170 POINT-OF-SALE

See also "IBM SolutionPac Offerings" on page 27 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.

For a special promotional offering on the following item, see "Store Express Trial Program" on page 1.

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
5669-033	4680 Operating System V.1.2 for 5170 Point-of-Sale (supports 2nd loop adapter, PC Network) (V.1.3 available 9/87) Warranted, Central Service 6 mo. notice	
9001	Asset Registration	N/C
4606	One-Time Charge	1250
5898	Media Selection (5.25in diskettes)	N/C
4642	Multiple-Controller Feature, One-Time Charge	625
5888	Multiple-Controller Feature, Media Selection	
	(5.25in diskettes)	N/C

For a special promotional offering on the following item, see "Store Express Trial Program" on page 1.

5669-034	IBM 4680 BASIC (based on CB86, LINK-86, and	
	LIB-86, specify FC 9001, 4607, and 5898) (V.1.2	
	available 9/87) Warranted, Central Service 6 mo.	
	notice	2500

For a special promotional offering on the following item, see "Store Express

MODEL/FC VPA DESCRIPTION PRICE

Trial Program" on page 1.

5669-031	IBM 4680 General Sales Application (written in	
	4680 BASIC, specify FC 9001, 4604, and 5898)	
	Warranted, Central Service 6 mo. notice	
4641	One-Time Charge	900
7898	Source code for General Sales Application	
	(optional)	10000
7040	General Sales Application Program Reference	??
8002	General Sales Application Program Reference	
	(additional copies)	??

For a special promotional offering on the following item, see "Store Express Trial Program" on page 1.

5669-032	IBM 4680 Supermarket Application	N/C
9001	Asset Registration	N/C
4605	One-Time Charge	2250
5898	Media Selection (5.25in diskettes)	
4643	Source Code, One-Time Charge	10000
7898	Source Code, Media Selection	N/C

For a special promotional offering on the following item, see "Store Express Trial Program" on page 1.

5669-212	IBM 4680 Chain Drug Application (written in 4680	
	BASIC, specify FC 9001, 4660, and 5898) Warranted,	
	Central Service 6 mo. notice	900
4661	Source code One Time Charge for Chain Drug	
	Application (optional)	4000
3000	Source code Media Selection for Chain Drug	
	Application (optional)	N/C
7040	Chain Drug Application Program Reference	??
8003	Chain Drug Application Program Reference	
	(additional copies)	??

MODEL/FC VPA DESCRIPTION

PRICE

MODEL/FC VPA DESCRIPTION

PRICE

EDUCATIONAL PROGRAMS

		IBM PC Adventures in Math	39
		The Combined Adventures with Numbers	39.95
	• • •	Aeromathics	19.95
		Algebra Drills	19.95
		Arithmetic Games Set 1	60
4025		Arithmetic Games Set 2	60
4053	A	BASIC Primer	65
4129	Α	BASIC Primer Version 2	65
2290		Hands-On BASIC for the IBM PCjr (book)	17.50
4116		BASIC Made Easy for the IBM PCjr (book)	13.00
4137	Α	IBM PC Bouncy Bee Learns Letters (5.25in)	70
4511	A	IBM PC Bouncy Bee Learns Letters (3.5in)	70
4536	A	IBM PC Bouncy Bee Learns Letters, LAN Package	
		(5.25in)	420
4139	A	IBM PC Bouncy Bee Learns Words (5.25in)	70
		IBM PC Bouncy Bee Learns Words (3.5in)	70
		IBM PC Bouncy Bee Learns Words, LAN Package	
		(5.25in)	420
6276605	#	Bridge Break 200	24.95
		IBM PC Bumble Games	45
		IBM PC Bumble Plot	45
		Comma Cat	49
		Computer Preparation for the SAT *	79.95
		Countries, Capitals, and More!	24.95
		Dictionary Dog	49
		Electronic Grammar (Parts of Speech)	24.95
		FACT TRACK	90
4098		Gertrude's Puzzles	49
4097		Gertrude's Secrets	49
		Hopping Down the Math Trail	19.95
		The Instructor by Individual Software*	44.95
		I Can Be Anything	50
		InfoCourse: Spreadsheets for Professionals (runs	30
0713		on InfoWindow)	2000
4095		IBM PC Juggles' Butterfly	39
		Karel the Robot	150
		Learning to Use DOS 2.00 (book)	15
		Listen to Learn (talking word-processor) (5.25in)	195
		Listen to Learn (talking word-processor) (3.5in)	195
		Listen to Learn (talking word-processor), LAN	173
4550	11	Package (5.25in)	1170
4076	٨	LOGO by Logo Computer Systems, Inc. (5.25in)	175
		LOGO by Logo Computer Systems, Inc. (3.251h)	175
		LOGO Learner (5.25in)	110
		LOGO Learner (3.5in)	110
		Matrix Madness	19.95
	•••	Memory House	19.95
		Missing Letters (5.25in)	50
		Missing Letters (3.5in)	50 50
		Missing Letters, LAN Package (5.25in)	300
+220	n	missing betters, bon rackage (3.23111)	500

4072 IBM PC Morse Code 6276612 # PC Morse Code 6276525 # Morse Code Drills 6276585 # Multipurpose Authoring Language 6276623 # Multipurpose Authoring Language Reference Book 6024340 InfoCourse: Principle of the Alphabet Literacy System (PALS) V.1.0, Warranted, Central Service for 90 days or to 3/89 (runs on InfoWindow, 2087) (5.25in) 60 4767 A Primary Editor (children's word processor) (5.25in) 60 4767 A Primary Editor (children's word processor), LAN Package (5.25in) 70 9340 A IBM Programmed Inquiry Learning or Teaching (PILOT), Central service to 8/86 219 9183 A Professor DOS by Individual Software, Inc.* 59.95 4099 Rocky's Boots 50 4075 A Teacher's Quiz Designer (5.25in) 75 4339 A IBM PC Touch Typing for Beginners (5.25in) 85 4562 A IBM PC Touch Typing for Beginners (5.25in) 85 4562 A IBM PC Touch Typing for Beginners School Package (5.25in) 85 4562 A IBM PC Touch Typing for Beginners School Package (5.25in) 1/2 diskettes, 1 manual) 365 4700 A IBM PC Touch Typing for Beginners School Package (3.5in) 1/2 diskettes, 1 manual) 365 4107 Turtle Power Activity Book 115 4109 IBM PC Turtle Power 4079 Turtle Power Activity Book 115 4013 A Typing TNTRUCTOR II* 49.95 40447 M Writing to Read V.3 (PCjr only), Program Kit (inc. Teacher's Manual, pgm, Work Journals, cassettes) (3.5in) 4450 M Writing to Read V.3 (PCjr only), Program Kit (inc. Teacher's Manual, pgm, Work Journals, cassettes) (3.5in) 4469 M Writing to Read V.3 (PCjr only), Program Kit (inc. Teacher's Manual, pgm, Work Journals, cassettes) (3.5in) 4469 M Writing to Read V.3 (PCjr only), Program Kit (inc. Teacher's Manual, pgm, Work Journals, cassettes) (3.5in) 4469 M Writing to Read V.3 (PCjr only), Teacher's Manual 37 4468 A Get Set for Writing to Read (Kit, contains Alphabet and Sound Pgms, Manual, Workbooks, Audio Cassettes, etc.) 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 6	MODEL/FC VPA	DESCRIPTION	PRICE	
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MODEL/FC VPA	DESCRIPTION	PRICE
4355 A 1 4357 A 1	Level P (Preschool - Kindergarten) (5.25in) Level I (First - Second Grade) (5.25in) Level II (Third - Fourth Grade) (5.25in) Level III (Fifth - Sixth Grade) (5.25in)	150 175 175 195
	Level IV (Seventh - Eighth Grade) (5.25in)	195
	Level P (Preschool - Kindergarten) (3.5in)	150
	Level I (First - Second Grade) (3.5in)	175
	Level II (Third - Fourth Grade) (3.5in)	175
	Level III (Fifth - Sixth Grade) (3.5in)	195
4716 A .	Level IV (Seventh - Eighth Grade) (3.5in)	195
	Level P (Preschool - Kindergarten) School Package (5.25in)	675
	Level I (First - Second Grade) School Package (5.25in)	789
4369 A	Level II (Third - Fourth Grade) School Package	
	(5.25in)	789
4417 A	Level III (Fifth - Sixth Grade) School Package	
	(5.25in)	879
	Level IV (Seventh - Eighth Grade) School Package (5.25in)	879
	Level P (Preschool - Kindergarten) School Package (3.5in)	675
4713 A	Level I (First - Second Grade) School Package	
	(3.5in)	789
	Level II (Third - Fourth Grade) School Package (3.5in)	789
	Level III (Fifth - Sixth Grade) School Package (3.5in)	879
	Level IV (Seventh - Eighth Grade) School Package	
	(3.5in)	879
4576 A	Level P (Preschool - Kindergarten) LAN Pack	
	(5.25in)	900
4575 A	Level I (First - Second Grade) LAN Pack (5.25in)	1050
	Level II (Third - Fourth Grade) LAN Pack (5.25in)	1050
	Level III (Fifth - Sixth Grade) LAN Pack (5.25in) Level IV (Seventh - Eighth Grade) LAN Pack	1170
	(5.25in)	1170

IBM PC MATH PRACTICE SERIES

4353 A Level	I (First - Second Grade) (5.25in)	95
4354 A Level	II (Third - Fourth Grade) (5.25in)	95
4431 A Level	III (Fifth - Sixth Grade) (5.25in)	95
4432 A Level	IV (Seventh - Eighth Grade) (5.25in)	95

MODEL/FC VPA DESCRIPTION	PRICE
1662 A Lorest I (First Second Conds) (2 Firs)	O.F.
4663 A Level I (First - Second Grade) (3.5in)	95 95
4664 A Level II (Third - Fourth Grade) (3.5in) 4665 A Level III (Fifth - Sixth Grade) (3.5in)	95
4666 A Level IV (Seventh - Eighth Grade) (3.5in)	95 95
4000 A Level IV (Seventh - Eighth Grade) (5.51h)	93
4372 A Level I (First - Second Grade) School Package	
(5.25in) 4371 A Level II (Third - Fourth Grade) School Packa	429
(5.25in)	429
4421 A Level III (Fifth - Sixth Grade) School Packa	ge
(5.25in)	429
4422 A Level IV (Seventh - Eighth Grade) School Pac	
(5.25in)	429
4667 A Level I (First - Second Grade) School Packag	e
(3.5in)	429
4668 A Level II (Third - Fourth Grade) School Packa	
(3.5in) (460 A Lovel III (Fifth Sinth Crade) School Books	429
4669 A Level III (Fifth - Sixth Grade) School Packa (3.5in)	ge 429
4670 A Level IV (Seventh - Eighth Grade) School Pac	
(3.5in)	429
4573 A Level I (First - Second Grade) LAN Package	
(5.25in)	570
4574 A Level II (Third - Fourth Grade) LAN Package	370
(5.25in)	570
4597 A Level III (Fifth - Sixth Grade) LAN Package	
(5.25in)	570
4598 A Level IV (Seventh - Eighth Grade) LAN Packag (5.25in)	e 570
(3.23111)	570
INM DC DADTO OF ODEFCH OFDIFO	
IBM PC PARTS OF SPEECH SERIES	
'School Packages' consist of one manual and	12
copies of the program diskette.	
4333 A Level II (Third - Fourth Grade) (5.25in)	100
4334 A Level III (Fifth - Sixth Grade) (5.25in)	100
4679 A Level II (Third - Fourth Grade) (3.5in)	100
4680 A Level III (Fifth - Sixth Grade) (3.5in)	100
4378 A Level II (Third - Fourth Grade) School Packa	ge
(5.25in)	450
4379 A Level III (Fifth - Sixth Grade) School Packa	
(5.25in)	450
4681 A Level II (Third - Fourth Grade) School Packa	ge 450
(.).) [[]	4711

MODEL/FC VPA	DESCRIPTION	PRICE
4682 A Leve: (3.5:	l III (Fifth - Sixth Grade) School Pacl in)	kage 450
4557 A Leve	l II (Third – Fourth Grade) LAN Packago 5in)	e 600
4558 A Leve (5.2	l III (Fifth - Sixth Grade) LAN Package 5in)	e 600

PERSONAL COMPUTER INSTRUCTIONAL SYSTEM BY COMPUTER SYSTEMS RESEARCH

9173	Presentation System, Central service to 11/85	89
9174	Authoring System, Central service to 11/85	575
9175	Administration System, Central service to 11/85	439

IBM PC PHYSICS DISCOVERY SERIES VERSION 1

4403	A	Investigating	Acceleration (5.25in)	75
		0 0	Atomic Models (5.25in)	75
			Electric Fields (5.25in)	75
			Gravitational Force (5.25in)	75
4402	Α	Investigating	Conservation of Energy (5.25in)	75
			Models of Light (5.25in)	75
			Thermal Energy (5.25in)	75
			Wave Interference (5.25in)	75
4624	A	Investigating	Acceleration (3.5in)	75
4523	A	Investigating	Atomic Models (3.5in)	75
4627	A	Investigating	Electric Fields (3.5in)	75
4622	A	Investigating	Gravitational Force (3.5in)	75
4625	A	Investigating	Conservation of Energy (3.5in)	75
4626	Α	Investigating	Models of Light (3.5in)	75
4623	Α	Investigating	Thermal Energy (3.5in)	75
4628	A	Investigating	Wave Interference (3.5in)	75
4581	A	Investigating	Acceleration (LAN Package) (5.25in)	450
4612	A	Investigating	Atomic Models (LAN Package,	
		4/9/87)(5.25in	n)	450
4599	A		Electric Fields (LAN Package)	
		(5.25in)		450
4582	A		Gravitational Force (LAN Package)	
		(5.25in)		450
4584	A		Conservation of Energy (LAN Package)	
		(5.25in)		450
4600	A		Models of Light (LAN Package)	
		(5.25in)		450
4583	A		Thermal Energy (LAN Package)	
		(5.25in)		450

MODEL/FC VPA	DESCRIPTION	PRICE
4601 A	Investigating Wave Interference (LAN Package) (5.25in)	450
PRIVATE TUTO	D CEDIEC	
INTANIL IOIC	on series	
4052 A	Private Tutor	55
4113 A	Private Tutor Version 2 (5.25in)	55
4508 A	Private Tutor Version 2 (3.5in)	55
	Beyond Basic BASIC	24.95
	Learning to Program in BASIC	39
	Computers and Communications	39
	Learning DOS 2 for Private Tutor Version 2	45
6276567 #	FORTRAN Tutor	19.95
6076500 #	Alachus Tukou	34.95
	Algebra Tutor	55
	Capitalization Skills Language Skills	55
	Multiplication Tables	24.95
	Punctuation Skills	55
	Reading Comprehension Skills	55 55
	Spell Facts (Private Tutor series)	19.95
	Spelling Skills	55
	Vocabulary Building Skills	55 55
	Word Knowledge Skills	55
4207 A	Basic Number Concepts	55
	Math Computation Skills	55 55
	Preparing for Geometry and Algebra	55
	Solving Math Word Problems	55
4500 H		
4078	Writing Private Tutor Courses for the IBM PC	14.50
6276602 #	Private Tutor Presenter 1.10	24.95
4531 A	Private Tutor Version 2, LAN Package (5.25in)	330
	Capitalization Skills, LAN Package (5.25in)	330
	Language Skills, LAN Package (5.25in)	330
	Punctuation Skills, LAN Package (5.25in)	330
	Reading Comprehension Skills, LAN Package (5.25in)	330
	Spelling Skills, LAN Package (5.25in)	330
	Vocabulary Building Skills, LAN Package (5.25in)	330
	Word Knowledge Skills, LAN Package (5.25in)	330
4540 A	Basic Number Concepts, LAN Package (5.25in)	330
	Math Computation Skills, LAN Package (5.25in)	330
4542 A	Preparing for Geometry and Algebra, LAN Package	
	(5.25in)	330
4543 A	Solving Math Word Problems, LAN Package (5.25in)	330

DESCRIPTION

PRICE

IBM PC PUNCTUATION SERIES V.1.0

'School Packages' consist of one manual and 12 copies of the program diskette.

0940	A			II (Third-Fourth Grade)	
00/0		Single Pack		TIT (Dick) of all or all)	110
0942	A	Single Pack		III (Fifth-Sixth Grade)	110
0044	٨	_		IV (Seventh-Eighth Grade)	110
0344	А	Single Pack		iv (beventh-righth Grade)	110
		bingie ruck	(3.23111)		110
4695	A	Punctuation	Series Level	II (Third-Fourth Grade)	
		Single Pack		•	110
4696	A	${\tt Punctuation}$	Series Level	III (Fifth-Sixth Grade)	
		Single Pack	•		110
4697	A			IV (Seventh-Eighth Grade)	
		Single Pack	(3.5in)		110
00/1		D	C! T1	II (Third Poweth Cools)	
0941	A	School Pack		II (Third-Fourth Grade)	495
09//3	Δ		· ·	III (Fifth-Sixth Grade)	473
0,45	Π	School Pack		Tit (Titth bixth Grade)	495
0945	Α		•	IV (Seventh-Eighth Grade)	1,7,5
		School Pack		(20, errer Press)	495
4719	A	Punctuation	Series Level	II (Third-Fourth Grade)	
		School Pack	•		495
4717	A			III (Fifth-Sixth Grade)	
		School Pack	•	(495
4718	A			IV (Seventh-Eighth Grade)	/ 0.5
		School Pack	(3.51n)		495
4607	Δ	Punctuation	Sarias Laval	II (Third-Fourth Grade)	
4007	Α	LAN Pack (5		ii (iniid iouith olade)	660
4608	Α	•	•	III (Fifth-Sixth Grade)	
•		LAN Pack (5			660
4609	A		•	IV (Seventh-Eighth Grade)	
		LAN Pack (5	.25in)	-	660

IBM PC READING FOR INFORMATION

4358	Α	Level	II (Third - Fourth Grade) (5.25in)	125
4359	Α	Level	III (Fifth - Sixth Grade) (5.25in)	150
4360	A	Level	IV (Seventh - Eighth Grade) (5.25in)	150
4683	Α	Leve 1	II (Third - Fourth Grade) (3 5in)	125

MODEL/FC VPA DESCRIPTION	PRICE
4684 A Level III (Fifth - Sixth Grade) (3.5in) 4685 A Level IV (Seventh - Eighth Grade) (3.5in)	150 150
4386 A Level II (Third - Fourth Grade) School Package (5.25in)	565
4387 A Level III (Fifth - Sixth Grade) School Package (5.25in)	675
4366 A Level IV (Seventh - Eighth Grade) School Package (5.25in)	675
4686 A Level II (Third - Fourth Grade) School Package (3.5in)	562.50
4687 A Level III (Fifth - Sixth Grade) School Package (3.5in)	675
4688 A Level IV (Seventh - Eighth Grade) School Package (3.5in)	675
4578 A Level II (Third - Fourth Grade) LAN Package (5.25in)	750
4579 A Level III (Fifth - Sixth Grade) LAN Package (5.25in)	900
4580 A Level IV (Seventh - Eighth Grade) LAN Package (5.25in)	900

IBM PC READING FOR MEANING SERIES

4330 A Level I (Second Grade) (5.25in) 4336 A Level II (Third - Fourth Grade) (5.25in) 4337 A Level III (Fifth - Sixth Grade) (5.25in) 4338 A Level IV (Seventh - Eighth Grade) (5.25in)	150 150 150 150
4671 A Level I (Second Grade) (3.5in) 4672 A Level II (Third - Fourth Grade) (3.5in) 4673 A Level III (Fifth - Sixth Grade) (3.5in)	150 150 150
4674 A Level IV (Seventh - Eighth Grade) (3.5in) 4384 A Level I (Second Grade) School Package (5.25in)	150 675
4374 A Level II (Third - Fourth Grade) School Package (5.25in) 4375 A Level III (Fifth - Sixth Grade) School Package	675
(5.25in) 4364 A Level IV (Seventh - Eighth Grade) School Package (5.25in)	675 675
4675 A Level I (Second Grade) School Package (3.5in) 4676 A Level II (Third - Fourth Grade) School Package	675
(3.5in)	565

MODEL,	/FC '	VPA	DESCRIPTION	PRICE
			Level III (Fifth - Sixth Grade) School Package (3.5in) Level IV (Seventh - Eighth Grade) School Package	675
			(3.5in)	675
			Level I (Second Grade) LAN Package (5.25in) Level II (Third - Fourth Grade) LAN Package	900
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	4561	A	(5.25in) Level IV (Seventh - Eighth Grade) LAN Package	900
			(5.25in)	900
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•	4474	A	Concept Developments: Heat and Temperature, and Graphs (5.25in)	75
			Measurement Process: Distance and Area (5.25in)	75
			Ratio Reasoning: Crystals and Speed (5.25in) Scientific Models: Batteries and Bulbs, and	75
,	4 777	7.7	Families (5.25in)	75
:	2447	Α	Theory Formulation: Reflections and Patterns (5.25in)	75
•	4632	A	Concept Developments: Heat and Temperature, and Graphs (3.5in)	75
			Measurement Process: Distance and Area (3.5in)	75
			Ratio Reasoning: Crystals and Speed (3.5in)	75
•	4630	A	Scientific Models: Batteries and Bulbs, and Families (3.5in)	75
	4729	Α	Theory Formulation: Reflections and Patterns	75
			(3.5in)	75
IBM PC	SPE	LL	ING SERIES	
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	4347	A	Level I (First - Second Grade) (5.25in)	110
			Level II (Third - Fourth Grade) (5.25in) Level III (Fifth - Sixth Grade) (5.25in)	110 110
	4720	A	Level I (First - Second Grade) (3.5in)	110
	4708	Α	Level II (Third - Fourth Grade) (3.5in)	110
	4709	A	Level III (Fifth - Sixth Grade) (3.5in)	110
٠.	4380	A	Level I (First - Second Grade) School Package (5.25in)	495

MODEL/FC VPA	DESCRIPTION	PRICE
	vel II (Third - Fourth Grade) School Packa .25in)	ge 495
4382 A Lev	vel III (Fifth - Sixth Grade) School Packa .25in)	
	vel I (First - Second Grade) School Packag .5in)	e 495
	vel II (Third - Fourth Grade) School Packa .5in)	ge 495
	vel III (Fifth - Sixth Grade) School Packa .5in)	ge 495
	vel I (First - Second Grade) LAN Package	660
4568 A Lev	vel II (Third - Fourth Grade) LAN Package	660
4569 A Lev	vel III (Fifth - Sixth Grade) LAN Package .25in)	660
IBM PC VOCABULA	ARY SERIES	
	chool Packages' consist of one manual and pies of the program diskette.	12
	vel II (Third - Fourth Grade) (5.25in)	110
	vel III (Fifth - Sixth Grade) (5.25in) vel IV (Seventh - Eighth Grade) (5.25in)	110 110
	vel II (Third - Fourth Grade) (3.5in)	110
	vel III (Fifth - Sixth Grade) (3.5in) vel IV (Seventh - Eighth Grade) (3.5in)	110 110
	vel II (Third - Fourth Grade) School Packa .25in)	ge 495
4377 A Lev	vel III (Fifth - Sixth Grade) School Packa .25in)	
4365 A Le	vel IV (Seventh - Eighth Grade) School Pac .25in)	kage 495
	vel II (Third - Fourth Grade) School Packa .25in)	ge 495
4705 A Le	vel III (Fifth - Sixth Grade) School Packa .25in)	
4706 A Le	vel IV (Seventh - Eighth Grade) School Pac .25in)	
	vel II (Third - Fourth Grade) LAN Package .25in)	660
	vel III (Fifth - Sixth Grade) LAN Package	000

660

(5.25in)

MODEL/FC VPA DESCRIPTION PRICE

4572 A Level IV (Seventh - Eighth Grade) LAN Package (5.25in)

660

IBM INFORMATION SYSTEMS MANAGEMENT INSTITUTE

GR20-4824 GR20-4857	End User and Personal Computing Curriculum IBM Personal Computer Curriculum (combines SRI and	N/C
GR20-4637	ISMI courses)	N/C
G3653	Telecommunications Environment (3 days) covering telephony, common carriers, PBX's, voice/data	
	integration	540
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
G4001	Network Connected Personal Computers (4-1/2 day)	
20010	for 3270-PC, PC Net gateway, PC/370	1260
B3819	Implementing Graphics in a GDDM Host-Local Environment (2-1/2 day) for 3179/G, 3270-PC, GGXA,	
	etc.	700
G3636	PC LAN Implementation and Tuning (3 days, Covers	
	both PC Network and Token-Ring, esp. NETBIOS	660
G4003	software) PC Network Implementation and Tuning (2 days)	560
G3611	Token-Ring Network Implementation and Management	300
	(3-1/2 days)	770
B3821	IBM System/36 Office Using IBM PC's (3 day, DW3,	
D3021	PS/36, DW/36)	660
	15,00, 2,,,00,	
Y6068	Introduction to the IBM 4680 Store System (1/2	
E2620	day)	N/C
E3622	Planning and Installing the IBM 4680 Sales Application (8 days)	2080
E3623	Programming the IBM 4680 General Sales Application	2000
	(10 days)	3300
WOO/O	Information Contar Conquiting (2-1/2 day)	675
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	720
	day)	1080

DESCRIPTION

PRICE

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 Z2275	Programming the IBM Personal Computer Programming the IBM Personal Computer (via GLC attendance at current half-day rate)	125
32276 Z2276	Business Programming in BASIC Business Programming in BASIC (via GLC attendance at current half-day rate)	125
32279 Z2279	Advanced File Processing in BASIC Advanced File Processing in BASIC (via GLC attendance at current half-day rate)	125
32280 Z2280	Advanced BASIC Programming Techniques Advanced BASIC Programming Techniques (via GLC attendance at current half-day rate)	125
34552	IBM Personal Computer Architecture	150
32298 Z2298	The IBM Personal Computer Advanced Technology The IBM Personal Computer Advanced Technology (via GLC attendance at current half-day rate)	150
32281 32284	Using IBM DisplayWrite 2 Using IBM DisplayWrite 3 Upgrade 'Using IBM DisplayWrite 2' course to 'Using IBM DisplayWrite 3' course	200 250 50
32266 Z2266	Document Exchange: DisplayWrite 3 and System/36 Document Exchange: DisplayWrite 3 and System/36 (via GLC attendance at current half-day rate)	90
32271 Z2271	Using the IBM Personal Computer and DOS Using the IBM Personal Computer and DOS (via GLC attendance at current half-day rate)	90
32299	The IBM Personal Computer DOS (publication	105
Z2299	SR21-0572) The IBM Personal Computer DOS (via GLC attendance at current half-day rate)	125
32278 32292 32274	Using the Lotus 1-2-3 Program Developing Computer-Based Training with PC PILOT Using the WordStar Program	90 250 90
32295	The IBM Personal Computer Network	175

MODEL/FC VP	A DESCRIPTION	PRICE
Z2295	The IBM Personal Computer Network (via GLC attendance at current half-day rate)	
34550	Installation of Personal Services/PC with DISOSS	150
32401 32401	UNIX Operating System: Introduction (60 day lease) UNIX Operating System: Introduction (12 month	605
Z2401	lease) UNIX Operating System: Introduction (via GLC	1100
	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
Z2402	UNIX Operating System: Editing and Printing (via GLC attendance at current half-day rate)	
32403	UNIX Operating System: Files and Directories (60 day lease)	605
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)	
32404	UNIX Operating System: Text Formatting (60 day lease)	415
32404	UNIX Operating System: Text Formatting (12 month lease)	750
Z2404	UNIX Operating System: Text Formatting (via GLC attendance at current half-day rate)	
32405	UNIX Operating System: System Administration (60 day lease)	605
32405	UNIX Operating System: System Administration (12 month lease)	1100
Z2405	UNIX Operating System: System Administration (via GLC attendance at current half-day rate)	
32406	UNIX Operating System: Shell Programming (60 day lease)	605
32406	UNIX Operating System: Shell Programming (12 month lease)	1100
Z2406	UNIX Operating System: Shell Programming (via GLC attendance at current half-day rate)	1100
32407	UNIX Operating System: Program Development Tools (60 day lease)	605
32407	UNIX Operating System: Program Development Tools (12 month lease)	1100
Z2407	UNIX Operating System: Program Development Tools (via GLC attendance at current half-day rate)	1100
32153	308X Hardware Operator Training (12-mo. lease)	950
Z2153	308X Hardware Operator Training (via GLC attendance at current half-day rate)	
32151 Z2151	3090 Hardware Operator Training (12-mo. lease) 3090 Hardware Operator Training (via GLC attendance at current half-day rate)	950

MOI	DEL/FC V	PA DESCRIPTION	PRICE
	32192	MVS/SP Operator Training (60-day lease)	495
	32192	MVS/SP Operator Training (12-month lease)	1250
	32293	VM/SP Operator Training (60-day lease)	580
	32293	VM/SP Operator Training (12-month lease)	1050
	32181	Controlling JES2 (30-day lease) (Publication	
		number SR20-8093)	280
	32181	Controlling JES2 (60-day lease)	455
	32181	Controlling JES2 (12-month lease)	825

FIELD INSTRUCTION SYSTEM (FIS) SELF STUDY

77514 Personal System/2 Model 30 Service

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TECHNICAL SEMINARS

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

DESCRIPTION

PRICE

MUSIC PROGRAMS

9798 A COMPOSE (uses IBM PC Music Feature, 3.5in+5.25in)
(5/1/87) * 109.95
9784 A PLAYREC (uses IBM PC Music Feature, 3.5in+5.25in)
* 77.95

DESCRIPTION

PRICE

DESCRIPTION

PRICE

GAMES

6276621 #	Alley Cat	24.95
6276502 #	Backgammon	19.95
6276503 #	Blackjack	24.95
6276592 #	Chess Games of the Grandmasters	19.95
6276535 #	Crypto-Mania (decode famous quoatations)	24.95
6276577 #	Crypto-Mania Puzzle Pac (500+ added crypto	
	puzzles)	19.95
9048 A	Flight Simulator by Microsoft *	49.95
6276511 #	Freddy's Rescue Roundup (formerly Roadrunner	
	Rescue)	19.95
6276664 1	Imperial Space Command	49.95
6276519 #	Kaleidoscope (display pattern generator)	14.95
6276569 #	Liptocoe (maze game)	19.95
6276619 #	M.U.L.E	29.95
6276600 #	Music 101 (trivia questions on music)	19.95
6276553 #	Scattergrams (solve jumbled quotations)	19.95
6276563 #	Side-Swipe	14.95
6276565 #	Solitaire	19.95
6276608 #	Sports Appeal (sports trivia questions)	19.95
6276643 #	VERSO	19.95
6276620 #	The World's Greatest Baseball Game	29.95
6276599 #	Trivia 102	24.95
6276610 #	Trivia 103	24.95
6276534 #	Word Seeking	24.95
6276515 #	Zuran	19.95
6276516 #	3-K Trivia	24.95

DESCRIPTION

PRICE

PROCESSORS - RT-PC SYSTEM

For associated software, see "IBM RT-PC Advanced Interactive Executive" on page 177.

The IBM RT Personal Computer is discounted on a separate RT-PC Volume Procurement Agreement. The VPA categories listed below apply to that agreement only.

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

For a special promotional offering on the following item, see "RT PC AIX Operating System Promotional Offering" on page 1.

6150-020 a RT-PC System Unit, incl. RISC Processor, RT
Keyboard, 1.2MB Diskette, 40MB Fixed Disk and
Adapter, 1MB Memory, 2 Async Ports
11900

For a special promotional offering on the following item, see "RT PC AIX Operating System Promotional Offering" on page 1.

6150-025 a RT-PC System Unit, incl. RISC Processor, RT
Keyboard, 1.2MB Diskette, 70MB Fixed Disk and
Adapter, 2MB Memory, 2 Async Ports
14050

For a special promotional offering on the following item, see "RT PC AIX Operating System Promotional Offering" on page 1.

6150-A25 a RT-PC System Unit, incl. RISC Processor, 1.2MB
Diskette, 70MB Fixed Disk and Adapter, 2MB Memory,
2 Async Ports, 5080 Attachment
15620

6150-125 a 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 (5/87) 16100

6150-B25 a 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 (5/87) 17670

The following RT-PC system units are desktop devices, with limited expandability.

6151-010 a RT-PC System Unit, incl. RISC Processor, RT
Keyboard, 1.2MB Diskette, 40MB Fixed Disk and
Adapter, 1MB Memory (no additional disk drives
allowed)

7900

For a special promotional offering on the following item, see "RT PC AIX Operating System Promotional Offering" on page 1.

For a special promotional offering on the following item, see "RT PC AIX Operating System Promotional Offering" on page 1.

61X6833 Upgrade RT-PC models 010, 015, 020, 025, A25 to new processor 2495

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.

- 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)
- 0213 PC Network Adapter (requires user-written programs)
- 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

		40MB Fixed-Disk Drive (maximum 3 drives) PC/AT Fixed-Disk and Diskette Drive Adapter (required if a third Fixed Disk is to be	1395
		configured, requires FC 8541 and an I/O slot)	650
		RT-PC 70MB ESDI Fixed-Disk Drive (req. FC6341) RT-PC ESDI Magnetic Media Adapter (supports	2395
		2-FC6941 and 2 diskette drives)	650
	3988	RT-PC 70MB Extended ESDI Fixed-Disk Drive (for	
	3900	model 125, B25 only) (5/87)	2395
	3272	RT-PC 114MB Extended ESDI Fixed-Disk Drive (for model 125, B25) (4Q87)	3495
933	2-240	RT-PC SCSI Direct Access Storage Device, 200MB,	
		Rack Mount, Also available via monthly rental	
022	2.250	charge of \$850 (2087)	8500
933	2-250	RT-PC SCSI Direct Access Storage Device, 200MB, Standalone, Also available via monthly rental	
		charge of \$850 (2Q87)	8500

MODEL/FC VP	A DESCRIPTION	PRICE
9332-440 9332-450	RT-PC SCSI Direct Access Storage Device, 400MB, Rack Mount, Also available via monthly rental charge of \$1400 (2Q87) RT-PC SCSI Direct Access Storage Device, 400MB, Standalone, Also available via monthly rental	14000
9822	charge of \$1400 (2Q87) Cable from RT-PC to first 9332 on a signal cable	14000
9827	path (specify code on 9332, inc. terminator), 8m Cable from RT-PC to other 9332s on a signal cable	N/C
	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	
	(2Q87)	1080
3468	RT-PC Small Computer System Interface Adapter	
	Cable (2087), 8m (additional, prefer specify code	
	9822 above)	95
0/70	·	93
3470	RT-PC Small Computer System Interface	
	Device-to-Device Cable, 1m (additional, prefer	
	specify code 9827 above) (2Q87)	75
4797 a	6157 Streaming Tape Drive Adapter, RT-PC (requires an I/O slot)	430
	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.	
8222 a	1MB System Memory Expansion (max. 1 additional on old models)	1445
4739 a	2MB System Memory Expansion (max. 1 additional on old models)	2545
3156 a	4MB System Memory Expansion (max. 2 on old models)	3500
7004 a	4MB Fast Memory Expansion (max. 2 on models 115, 125, B25)	3800
7008 a	8MB Fast Memory Expansion (max. 1 on models 115, 125, B25)	5000
8426 a	Mouse, 2-button	195
6815 a	Advanced Floating-Point Accelerator (IEEE standard, uses dedicated slot, 2087)	1995
1.750 -		1773
4/30 8	Floating-Point Accelerator (IEEE standard, uses	0.50
	dedicated slot)	850
4763 a	4-Port Asynch RS-232C Adapter (speeds to 19.2	
	kbps, distance to 50 feet without modem, requires	
	I/O slot) (W/D 6/17/87)	425

MODEL/FC VPA	A DESCRIPTION	PRICE
	4-Port Asynch RS422A Adapter (speeds to 19.2 kbps, distance to 4000 feet without modem, requires I/O slot) (W/D $6/17/87$)	500
	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, 3Q87)	425
1357 a	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, 3Q87)	500
3797 a	Token-Ring Network Adapter for RT-PC (requires customer-written drivers)	1095
	Token-Ring Attachment Cable for RT-PC IBM RT-PC Baseband Adapter for use with Ethernet	35 850
	RT-PC Multi-Protocol Communications Adapter (Asc, BSC, SDLC to 64kbps, 2 concurrent ports)	850
4812 a	RS-232C Modem Cable for Multi-Protocol Communications Adapter, 3m	96
	Autocall Unit Cable, 3m	84
4010 a	X.21 Modem Cable for Multi-Protocol Communications Adapter, 3m	89
4756 a	PC/AT Coprocessor Card (req. I/O slot, FC 0203 memory recommended for performance, also supports FC 0211 (80287 chip)	995
	System/370 Host Interface Adapter (Attachment via 5080 Graphics Channel Controller at 2MB/sec)	1795
/561 a	5080 Peripheral Adapter (Not required if RT-PC is attached to 5080, requires I/O slot, contains 3	425
4710 a	ports) Lighted Program Function Keyboard (32-button, req. FC 7564, 7561)	550
8710. a	Dials Unit (8 dials, req. FC 7564, 7561)	950
7860 a	5080 Attachment Adapter (Model 020-025 only, standard in A25, req. an I/O slot)	1795
6153-001 b	Advanced Monochrome Graphics Display (12in Diagonal) (2 color, variable character cell, 720H	(10
4765 a	x 512V resolution, .37 Megapel) Advanced Monochrome Graphics Display Adapter (1024 x 512 bit map, displays 720 x 512 on 6153, req. an I/O slot)	775
6155-001 b	Extended Monochrome Graphics Display, RT-PC (15in Diagonal) (2 color, variable character cell, 1024H	077
4768 a	x 768V resolution, .79 Megapel) Extended Monochrome Graphics Display Adapter (1024 x 1024 bit map, displays 1024 x 768 on 6155, req.	975 1450
	an I/O slot)	1430

GA23-1058

SV21-8024

GC23-0784

MODEL/FC	VP	A DESCRIPTION	PRICE
6154-00	1 b	Advanced Color Graphics Display (14in Diagonal) (64 color, variable character cell, 720H x 512V	
476	6 а	resolution, .37 Megapel) Advanced Color Graphics Display Adapter (1024 x 512 x 4 bit map, palette of 16 colors from 64,	1550
765	8 a	displays 720 x 512 on 6154, req. an I/O slot) Megapel Display Adapter (1024 x 1024 x 8 bit map,	1350
		palette of 256 colors from 4096, supports 5081 and 5082, req. 2 I/O slots, req. FC2001 on 5081) inc. parallel printer adapter (5/87)	4500
		pararrer princer adapter (5/6/)	4300
		5080 Peripheral Cable Kit (1.2 meter)	53
		5083 Tablet Cable Kit (1.4 meter)	49
		ASCII Terminal Cable - RS-232C (9-pin, 3 meter)	55
		ASCII Terminal Cable - RS-232C (10-pin, 3 meter)	103
391.	за	ASCII Terminal Cable - RS-232C (10/25-pin, 3 meter) for attaching 316X terminals	70
76/	1 0	ASCII Terminal Cable - RS422A (6-pin, 3 meter)	42
		ASCII Terminal Cable - RS422A (6-pin, 20 meter)	72 78
		Serial Printer Cable (9-pin, 3 meter)	59
		Serial Printer Cable (10-pin, 3 meter)	64
		Modem Cable, RS-232C (10-pin, 3 meter)	64
		Fixed-Disk Attach Cable (attaches third Fixed Disk	
		to second adapter)	52
DT DC GUD		OT DUDI ICATIONO	
KI-PL SUP	'PUI	RT PUBLICATIONS	
		Each RT-PC System will be shipped with the following four manuals (choosing the appropriate maintenance manual)	
QW21_202	Λ.	IRM PT-DC Hear Satur Cuida	27.75
SV21-802 SV21-802		IBM RT-PC User Setup Guide Guide to Operations - RT-PC	20.25
SV21-802 SV21-802		Problem Determination Guide - RT-PC	65
SV21-802		Hardware Maintenance and Service Manual - RT-PC	05
2,22 002	-	6151	107
SV21-802	5	Hardware Maintenance and Service Manual - RT-PC	
		6150	108

IBM RT-PC Site Planning and Preparation

IBM RT-PC Hardware Technical Reference

IBM RT-PC Concepts

N/C

N/C

150

DESCRIPTION

PRICE

DESCRIPTION

PRICE

IBM RT-PC ADVANCED INTERACTIVE EXECUTIVE

For associated hardware, see "Processors - RT-PC System" on page 171.

These programs are discounted under the separate RT-PC Discount Agreement. The VPA Categories listed below are for that agreement only.

For a special promotional offering on the following item, see "RT PC AIX Operating System Promotional Offering" on page 1.

5669-061 A	IBM RT-PC Advanced Interactive Executive V.1.1 (FC's 9001, 5034, 4532), Warranted, Central Service 6 mo. notice or to 2/1/89	2295
5601-061 A	IBM RT-PC Advanced Interactive Executive V.2.1 (FC 9001, 5007) Warranted, Central Service to 2/1/89,	
/ 510	Incl. function of VRM V.2.1	2295
4512	Upgrade RT-PC AIX V.1.1 to V.2.1 (FC 9001, 5008) IBM RT-PC Virtual Resource Manager V.1.1 (FC's	395
3009-000 A	9001, 5033, 4531) Warranted, Central Service 6 mo.	
	notice or to 2/1/89	895
5601-062 A	IBM RT-PC Virtual Resource Manager V.2.1 (FC4513)	
	function incl. in AIX 2.1, Warranted, Central	
, = 1	Service to 2/1/89	895
4514	Upgrade RT-PC VRM V.1.1 to V.2.1 RT-PC PC/AT Coprocessor Services V.1.1 (supports	100
3609-037 B	AT processor card in RT-PC, FC's 9001, 5030, 4528)	
	Warranted, Central Service 6 mo. notice or to	
	2/1/88	550
5601-077 B	RT-PC X-Windows (windowing system) (FC4524,	
	9/25/87) Warranted, Central Service 6 mo. notice	(50
	or to 1/1/89	650
5669-056 B	RT-PC BASIC Interpreter (FC's 9001, 5029, 4527)	
	Warranted, Central Service 6 mo. notice or to	
	2/1/88	1000
	DT DO 11	
	RT-PC Advanced C Compiler Support Offering (education, C Compiler Information PRPQ, hotline	
	access) (5/15/87)	1995
5776-EBY B	RM/COBOL Compiler and Runtime System for the RT-PC	1,,,,
	(FC's 9001, 4005, 5001)	1950
5776-EBX B	RM/COBOL Runtime System for the RT-PC (FC's 9001,	
E//O OE/ D	4004, 5000)	400
5669-054 B	RT-PC Fortran 77 V.1.1 (FC's 9001, 5027, 4525)	
	Warranted, Central Service 6 mo. notice or to 2/1/88	650
	<u> </u>	000

M	ODEL/FC	VPA	DESCRIPTION	PRICE
	5601-037		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.	
	5601-037		notice or to 2/1/89 (5/15/87) Upgrade RT-PC Fortran 77 to RT-PC VS Fortran	995
	5669-242	2 B	(FC4510) Common Lisp Application Environment for the RT-PC by Lucid, Inc. (FC's 9001, 4664, 5141) Compiler	395
	5669-243	ВВ	and Interpreter Common Lisp Development Environment for the RT-PC	900
	5660 055		by Lucid, Inc. (FC's 9001, 4665, 5142) Compiler and Interpreter	4000
	5669-055	э В	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
	5601-038	3 B	RT-PC VS Pascal V.1 (FC4501) High compatibility with Pascal/VS on S/370, Warranted, Central Service to 2/1/89	1000
	5601-071	L B	RT-PC Distributed Services (Ethernet or SDLC	
		- .	transparent access to remote files, applications) (FC4520, 6/87) Warranted, Central Service 6 mo.	
	5669 - 053	ВВ	notice or to 2/1/89 RT-PC INmail/INnet/File Transfer Program V.1.1 (FC9001, 5025, 4523) Warranted, Central Service 6	850
	5601-039	ЭВ	mo. notice or to 2/1/88 RT-PC Workstation Host Interface Program (3270 Emulation, File Xfer, API, req. RT Host Interface Adapter) (FC4502) Warranted, Central Service to	625
	5669-052	2 B	2/1/89 RT-PC 3278/79 Emulation V.1.1.1 (FC's 9001, 5025,	995
	5601-04/	'. D	4523) Warranted, Central Service 6 mo. notice or to 2/1/88 Network 3270-Plus (SNA) for RT-PC (FC4505) Coax or	500
			SDLC 3278, 3287, multiple sessions, file transfer Network 3270-Plus (BSC) for RT-PC (FC4506) Coax or	995
			BSC 3278, 3287, multiple sessions, file transfer Network RJE-Plus (SNA) for RT-PC (FC4504) 2780,	1195
	5601-042	2 B	3780, 3770 emulation Network RJE-Plus (BSC) for RT-PC (FC4503) 2780,	995
			3780, 3770 emulation	1195
	5669-058	8 B	RT-PC Structured Query Language/RT Data Base V.1.1(FC's 9001, 5031, 4529) Warranted, Central Service 6 mo. notice or to 2/1/88	1000
	5601-064	4 B	RT-PC Structured Query Language/RT Data Base V.2.1 (FC4517) Warranted, Central Service to 2/1/88	1000
	4518 5669-059		Upgrade RT-PC SQL V.1.1 to V.2.1 RT-PC Data Management Services V.1.1 (FC's 9001,	200
			5032, 4530) (V.1.1.1 available 6/87) Warranted, Central Service 6 mo. notice or to 2/1/88	500
	5669-10	0 B	RT-PC Applix IA (word processing, graphics, mail, calendar) (FC's 9001, 5052, 4550)	1995

MODEL/FC VP	A DESCRIPTION	PRICE
5669 - 187 B	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
5669-106 B 5669-104 B	RT-PC IMSL Library * (FC's 9001, 5059, 4557) RT-PC IMSL SFUN Library (FC's 9001, 5058, 4556) RT-PC IMSL MATH/PROTRAN (FC's 9001, 5056, 4554)	3500 1495 2100
	RT-PC IMSL STAT/PROTRAN (FC's 9001, 5057, 4555) RT-PC IMSL LP/PROTRAN (FC's 9001, 5055, 4553)	1495 2700
5669-050 B	RT-PC Graphics Development Toolkit (FC's 9001, 5023, 4521) Warranted, Central Service 6 mo. notice or to 2/1/88	700
5669-064 B	RT-PC Graphics Terminal Emulator (FC's 9001, 5037, 4535) Warranted, Central Service 6 mo. notice or to 2/1/88	600
5669-063 B	RT-PC Plotting System (FC's 9001, 5036, 4534) Warranted, Central Service 6 mo. notice or to 2/1/88	600
5669-062 B	RT-PC Graphical File System (FC's 9001, 5035, 4533) Warranted, Central Service 6 mo. notice or to 2/1/88	600
5669 - 101 B	UNIRAS-RASPAK * (FC's 9001, 5060, 4558) UNIRAS-RASPAK Solids * (FC's 9001, 5053, 4551)	3550 4995
	UNIRAS-UNIMAP * (FC's 9001, 5054, 4552) UNIRAS-GEOPAK * (FC's 9001, 5061, 4559)	7650 6995
	UNIRAS-GEOINT * (FC's 9001, 5062, 4560)	1595
	UNIRAS-KRIGPAK * (FC's 9001, 5063, 4561)	3550
	UNIRAS-GIMAGE * (FC's 9001, 5064, 4562)	2595
	UNIRAS-SEISPAK * (FC's 9001, 5065, 4563) UNIRAS-UNIGRAPH * (FC's 9001, 5066, 4564)	7650 2995
	UNIRAS-BIZPAK * (FC's 9001, 5066, 4564)	2595
	UNIRAS-UNIEDIT * (FC's 9001, 5069, 4567)	2595
	RT-PC Workstation Publishing Software by Interleaf (FC's 9001, 5038, 4536)	1995
5601-0/0 B	RT Publishing Software by Interleaf (accepts drawings from IBM CAD systems, text from DW3 and DCF, others) (FC's 9001, 4519, 5015)	8200
5669-087 B	RT-PC SAMNA+ (FC's 9001, 5039, 4537)	1295
	RT-PC SOLOMON III General Ledger (FC's 9001, 5040, 4538)	995
	RT-PC SOLOMON III Accounts Receivable (FC's 9001, 5041, 4539) RT-PC SOLOMON III Accounts Payable (FC's 9001,	995
	5042, 4540) RT-PC SOLOMON III Accounts Fayable (FC's 9001, 5042, 4541)	995 995
	RT-PC SOLOMON III Purchasing (FC's 9001, 5044,	773
	4542) RT-PC SOLOMON III Order Entry/Invoicing (FC's	995
	9001, 5045, 4543)	995

MODEL/FC VP	A DESCRIPTION	PRICE
5669-094 B	RT-PC SOLOMON III Job Costing (FC's 9001, 5046, 4544)	1395
5669 - 095 B	RT-PC SOLOMON III Fixed Assets (FC's 9001, 5047, 4545)	995
5669-096 B	RT-PC SOLOMON III Sales Analysis (FC's 9001, 5048, 4546)	595
5669 - 097 B	RT-PC SOLOMON III Inventory (FC's 9001, 5049, 4547)	995
5669 - 098 B	RT-PC SOLOMON III Address and Mail List (FC's 9001, 5050, 4548)	395
5669-099 B	RT-PC SOLOMON III Database Reporter (FC's 9001, 5051, 4549)	995
	These programs are discounted under the separate CAD/CAM Licensed Programs Agreement. The VPA Categories listed below are for that agreement only.	
	Professional CADAM (FC's 9001, 5858, 4620) Warranted, Central Service 6 mo. notice or to 10/1/88	15000
5669-167 B	RT-PC graPHIGS R.3 (FC's 9001, 5858, 4608) (R.3.2 available 5/15/87) Warranted, Central Service 6 mo. notice	1000
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)	
5713-AAP C	Warranted, Central Service to 7/1/88 Computer-Integrated Electrical Design Series (CIEDS)/Design Simulation Base/RT-PC (FC4473)	2000
	Warranted, Central Service to 10/1/88	10000
5713-AAP F	Computer-Integrated Electrical Design Series (CIEDS)/Design Simulation Base/RT-PC (FC4473) (2087) Warranted, Central Service to 10/1/88	10000
5713-AAW F	Computer-Integrated Electrical Design Series (CIEDS)/Behavioral Simulator/RT-PC (FC4474) (2Q87)	
5713-AAX F	Warranted, Central Service to 10/1/88 Computer-Integrated Electrical Design Series (CIEDS)/Logic Simulator/RT-PC (FC4475) (2Q87)	20000
5713-AAY F	Warranted, Central Service to 10/1/88 Computer-Integrated Electrical Design Series (CIEDS)/Analog-Digital Simulator/RT-PC (FC4476)	13500
5713-AAZ F	(2Q87) Warranted, Central Service to 10/1/88 Computer-Integrated Electrical Design Series (CIEDS)/Switched Capacitor Simulator/RT-PC (FC4477) (2Q87) Warranted, Central Service to	12000
	10/1/88	10000

MODEL/FC VPA	DESCRIPTION	PRICE
5669-206 D CAEDS Bas	se for the IBM RT-PC (FC's 9001, 5858,	
4644) War	cranted, Central Service to 10/88	1655
5669-207 E CAEDS Ob	ject Modeler (FC's 9001, 5858, 4645)	
	d, Central Service to 10/88	6060
5669-208 E CAEDS Sys	stem Modeler (FC's 9001, 5858, 4646)	
Warranted	d, Central Service to 10/88	8230
5669-209 E CAEDS Gra	aphics Finite Element Modeler (FC's 9001,	
5858, 464	47) Warranted, Central Service to 10/88	8940

MUMPS-RT

9772 A Micronetics Standard Massachusetts General
Hospital Utility Multi-programming System (MSM-RT
MUMPS) 1995

DESCRIPTION

PRICE

MODEL/FC VPA DESCRIPTION

PRICE

PERIPHERAL DEVICES, CROSS-SYSTEM

PRINTERS AND ATTACHMENTS

6031	a Parallel Printer Cable a Serial Printer Cable a Printer Stand	45 45 45
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,	00
	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.

3812-001	Pageprinter (maximum speed 12 pages/minute, 240x240 dpi resolution)	8235
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,	506
	instructions)	58 6
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 (order from Greencastle)	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		
	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

MODEL/FC	VPA	DESCRIPTION	PRICE
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	L	Sonoran Serif (equivalent to Monotype Times New Percent) for 3812 Central Service to 12/31/87	
9001		Roman) for 3812, Central Service to 12/31/87 Registration	N/C
	_	One-Time Charge	640
		5.25in Diskette	N/C
5669-162	-	Sonoran Sans Serif (equivalent to Monotype Arial) for 3812, Central Service to 12/31/87	11,70
9001	1	Registration	N/C
4602	2	One-Time Charge	640
5125	5	5.25in Diskette	N/C
5669-163	3	Pi and Specials Fonts for 3812, Central Service to 12/31/87	
9001	1	Registration	N/C
4603	3	One-Time Charge	480
5126	ó	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 96 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.

The IBM 3280 Page Printer attaches to a PC, XT, or AT via an SDLC attachment card.

MODEL/FC VPA	A DESCRIPTION	PRICE
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
	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) (9/25/87) Remote PrintManager, uses PC/AT with S/370 Channel Emulator to allow PSF/MVS to drive a remote 3820	2445
IBM 3852 COL	over SDLC, Warranted, Central Service to 9/91 OR INK-JET PRINTER	3295
	Starter Pac for 3852-001 (Misc.paper)	121.85
	IBM Color Jetprinter (20-50 CPS) (incl. one black, one color ink cartridge)	745
S544-3120	Technical Reference Manual - Color Jetprinter	20.05
6293884	(3852-2) Roll Paper, 8-1/2in x 125 ft, microperf at 11in, 4 rolls/box	20.85
	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

MODEL/FC VI	PA DESCRIPTION	PRICE
1660210	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	14.73
0230300	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	44 75
	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

4201-002	f	IBM Proprinter II (40-240 CPS) w/4K print buffer, (Incl. ribbon, Guide to Operations, continuous	
		forms guide, power cord)	549
6328829		Ribbon, Proprinter II	9.25
8X9804		Proprinter II Guide to Operations	30
6328829		Ribbon Cartridge for Proprinter I	9.25
4202-001	f	IBM Proprinter XL (40-200 CPS, 14.3in Carriage, 4K buffer) (Incl.ribbon, Guide to Operations,	
		continuous forms guide, power cord)	799
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		Prporinter II Hardware Maintenance and Service	0.0
0001 0507		Supplement	??
SC31-2587		Proprinter Technical Reference Manual	28

IBM 4207 PROPRINTER X24 AND 4208 PROPRINTER XL24

4207-001 f IBM Proprinter X24 (67-240cps, 24-pin, draft through letter quality, Incl.ribbon, Guide to Operations, continuous forms guide, power cord) (6/87)	•
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 (6/87)	€
4001 a Fontset Option, Proprinter X24 (6/87) 10 4002 a Fontset Diskettes, Proprinter X24 (6/87) 3 94X6122 Fontset Module, Proprinter X24 (6/87) 7	2
1040475 4207 Proprinter X24 Ribbon Cartridge (6/87) 1	1.50
4208-001 f IBM Proprinter XL24 (67-240cps, 24-pin, 14.3in carriage, draft through letter quality, Incl.ribbon, Guide to Operations, continuous forms guide, power cord) (5/87)	9
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)	
4928 a Sheetfeed Attachment, Proprinter XL24 (5/87) 1040414 4208 Proprinter XL24 Ribbon Cartridge 1	-
SC31-3793 IBM 4207 Proprinter X24 and 4208 Proprinter XL24	O
Guide to Operations 3 SA34-2002 IBM 4207 Proprinter X24 and 4208 Proprinter XL24 Hardware Maintenance and Service Supplement 3	

IBM 4216 PERSONAL PAGEPRINTER

See also "IBM SolutionPac Offerings" on page 27 for the Personal Publishing Solutions, which incorporate some of the following products.

4216-020 f	Personal Pageprinter (maximum speed 6 pages/minute, 300x300 dpi resolution) (3Q87)	2199	
6190603	Toner Cartridges, Personal Pageprinter (6/carton,		
	price per cartridge) (3Q87)	29	
6190604	Photoconductor Unit Kit, Personal Pageprinter		
	(3087)	199	
6190605	Cleaning Unit Kit, Personal Pageprinter (3Q87)	99	
7001 á	Personal Pageprinter Adapter (3087)	1950	

ODEL/FC VPA DESCRIPTION	PRICE
0852 A IBM Personal Pageprinter Adapt	er Program (5.25in)
Test Period 2 months (3Q87)	850
0853 A IBM Personal Pageprinter Adapt	er Program (3.5in)
Test Period 2 months (3Q87)	850
0854 A IBM Personal Pageprinter Adapt	er/A Program
(5.25in)	??

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
3930 1	4250 Print Adapter for PCXT/286, PC/AT, and 8530 (5/87)	2650
0961 B	4250 Print Driver	850
77.72.2		
	Font - ITC Avante Garde, Medium	320
0963 A	Font - Monotype Baskerville, Medium	320
	Font - Monotype Bodini, Medium	320
0965 A	Font - Candida, Medium	320
	Font - Monotype Century, Medium	320
0967 A	Font - Monotype Century Schoolbook, Medium	320
0968 A	Font - Excelsior, Medium	320
	Font - Futura, Medium	320
0970 A	Font - Monotype Garamond, Medium	320
0971 A	Font - Helvetica, Medium	800
0972 A	Font - Optima, Medium	320
0973 A	Font - Palatino, Medium	320
0974 A	Font - Monotype Rockwell, Medium	320
0975 A	Font - ITC Souvenir Version 2, Medium	320
0976 A	Font - Monotype Times New Roman, Medium	320
0977 A	Font - Univers, Medium	640
0978 A	Font - ITC Avante Garde, Bold	320
0979 A	Font - Monotype Baskerville, Bold	320
0980 A	Font - Monotype Bodini, Bold	320
0981 A	Font - Candida, Bold	480
0982 A	Font - Monotype Century, Bold	320
0983 A	Font - Monotype Century Schoolbook, Bold	320
0984 A	Font - Excelsior, Bold	160
0985 A	Font - Futura, Bold	640
0986 A	Font - Monotype Garamond, Bold	320
	Font - Helvetica, Bold	640
0988 A	Font - Optima, Bold	320
	Font - Palatino, Bold	320
0990 A	Font - Monotype Rockwell, Bold	320
	Font - ITC Souvenir Version 2, Bold	320
	Font - Monotype Times New Roman, Bold	320
	Font - Univers, Bold	640
	Font - Helvetica, Light	640

MODEL/FC VPE	DESCRIPTION	PRICE
0996 A 0997 A	Font - ITC Souvenir Version 2, Light Font - Univers, Light Font - Typewriter Group Font - Engineering and Math Group	320 640 280 520
BM 4975 BAR	CODE/OCR PRINTER	
4975-02R 9901	Serial printer, with RPQ 8V0262 and FC 1601 or 1610 can print barcode, large characters, and OCR-A from PC ASYNCH port, 160/40 CPS in draft/text mode Optional 2.4 meter power cord	4175 N/C
6100	Optional rear document insertion device	135
	The following special printing cartridges enable the printing of barcode, large characters, and OCR-A. RPQ 8V0262 supports the printing of draft and text printing without these features.	
1601 1610	Special printing cartridge, field installed Special printing cartridge, plant installed	360 230
	The 4975 is also available for a monthly rental charge. See your IBM Marketing Representative for details.	
8V0262	RPQ to attach 4975 to PC ASYNCH port (cable, program diskette, manual)	250
	This RPQ is available only at the time of original manufacture of the 4975. It is not available for field upgrade.	
IBM 5202 QUI	ETWRITER III PRINTER	
5202-001 f	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
	In addition to the options listed below, the Quietwriter III supports the Sheetfeed (FC 7840) and Sheetfeed Paper Tray (FC 7880) of the	

Quietwriter

8214 f Pinwheel Form Feed, Quietwriter III

99

MODEL/FC	VPA	DESCRIPTION	PRICE
8362	f	Sheetfeed Adapter Kit (single drawer, for Quietwriter III, prerequisite for FC 7840 Sheetfeed)	35
1318361		IBM Quietwriter III Sheetfeed Adapter Stand-Off	5.40
1318401		IBM Quietwriter III Sheetfeed Adapter Plug	31.50
		Dual Drawer Sheetfeed, Quietwriter III	849
6487467		Supply Paper Tray, Dual Drawer, Quietwriter III	55.25
6487465		Output Paper Tray, Dual Drawer, Quietwriter III	23.25
9020	T	Envelope Feed (req. FC 9538)	299
8659	f	Font Download Feature, Multilingual, with 16KB	175
8670	f	Download Cartridge Font Download Feature, Multilingual, without 16KB	175
0070	_	Download Cartridge	50
8459	f	Font Download Feature, Word Processing, with 16KB	
		Download Cartridge	175
8570	f	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,	
1010000		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 75
1318800		IBM Electronic Font III - Blank Download	125
8632		Displaywrite series printer support table for	NI /O
8629		Quietwriter III (3.5in) Displaywrite series printer support table for	N/C
0027		Quietwriter III (5.25in)	N/C
			.,
1299933		IBM QUIET III High Yield Printer Ribbon	17.50
1318154 1342514		IBM Quiet III Printhead IBM Quietwriter III Line Cord (extra)	35
1318106		IBM Quietwriter III Line Cord (extra) IBM Quietwriter III Dust Shield	9.50 12.50
1310100		1311 Quictwillost III Bubb Bhiola	12.50
S544-4082		IBM Quietwriter III Printer Guide to Operations	25
S544-4084		IBM Quietwriter III Printer Hardware Maintenance	
SE// /002		and Service	90
S544-4083 S544-4122		IBM Quietwriter III Printer Technical Reference IBM Quietwriter III Printer Sheetfeed Option Guide	16
5544 4122		to Operations	9
S544-4140		IBM Quietwriter III Printer Dual Drawer Sheetfeed	
		Option Guide to Operations	11
S544-4141		IBM Quietwriter III Printer Dual Drawer Sheetfeed	· .
QE/./. /.1//		Option Hardware Maintenance and Service	60
S544 - 4144		IBM Quietwriter III Printer Font Download Option Guide to Operations	10
		outee to obetactous	

PRICE

IBM 5201 QUIETWRITER PRINTER

5201-002	f	Quietwriter Printer II (40-60cps, thermal	
		transfer, APA graphics) Incl. Courier 10 Quiet	
		Electronic Font, noncorrecting ribbon cartridge,	
		printhead, wrap plug, accessory kit	1399
		Upgrade 5201 model 1 to model 2 (parts, does not	
		include print head, ribbon, or installation) (W/D	
		7/2/87)	350
5201-001	f	Quietwriter Printer (40-60cps, thermal transfer)	
		Incl. Courier 10 Quiet Electronic Font, ribbon	
		cartridge, printhead, wrap plug, accessory kit	
		(W/D 7/2/87)	1199
7840	а	Sheetfeed	350
7820	а	Pinwheel Forms Feed	99
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	f	IBM Quiet Printhead	20
7930	f	IBM Quiet Cleaning Cartridge	5.55
7910	f	Line Cord	7.75
7920	f	Paper Table	7.50
7880	f	Sheetfeed Paper Trav	40

IBM 5216 WHEELPRINTER

5216-001	f	Wheelprinter, Parallel interface (25cps, cut/continuous forms) Incl. Courier 10 ASCII printwheel, ribbon cartridge, Guide to Operations,		
		req. cable FC6030 (W/D 7/2/87)	149	3 9
5216-002	f	Wheelprinter, Serial interface (25cps,		
		cut/continuous forms) Incl. Courier 10 ASCII		
		printwheel, ribbon cartridge, Guide to Operations,		
		req. cable FC6031 (W/D 7/2/87)	149	99
6030	a	Parallel attachment cable	4	45
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

•		
MODEL/FC VP	A DESCRIPTION	PRICE
1050105	AGGIT D-146 DGM D-1-4-1-1	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 DIS	SPLAYWRITER PRINTER FOR PC	
4470 A	IBM 5218-PC Attach Convenience Pac (Cable,	
	Program, Guide)	220
4471 a	IBM 5218-PC Printer Sharing Device	625
	IBM 5218-PC Printer Driver Program V.1.1	175
6113647	IBM 5218-PC Printer Attachment Cable	45
5218-A03	Displaywriter Printer (40CPS)	2460
5218-A04	Displaywriter Printer (60CPS)	2760
9203	5218 Specifyrequired for FCC Class B	
	certification and power to Printer Sharing Device	N/C
7850	Tractor Feed for 5218 Printer	325
7870	Sheet Feed for 5218, w/o Envelope Feed	1850
7875	Sheet Feed for 5218, with Envelope Feed	2350
IBM 5223 WH	EELPRINTER E MODEL 1	
5223-001 f	5223 Wheelprinter E (16cps, parallel attachment)	699
	Acoustical Sound Hood	30
	Sheetfeed	350
7820 f	Pinwheel Forms Feed	75
865507 3	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

MODEL/FC VI	PA DESCRIPTION	PRICE
6180-001	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	F 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 1	Graphics Enhancement Cartridge, increases buffer from 60 to 1KB, char. sets from 5 to 19, 14 new commands, compatibility with HP 7475A	150
5050	RS-232C Cable between 6180 and PC	51
	6180 Programming Manual (=GA66-0501)	29
	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	100
3 .32002	initial order)	??
5457803	A-Size Quality Presentation Paper	??
6184-001	IBM Color Plotter, C/D-size, 8-pen, RS-232C Attach, pen speed 16.5in/sec (pen down), 19.7in/sec (pen up), resolution 0.001in, supplies	
5030	kit RS232C Cable between 6184 and PC (also req. FC0242	5400
5050	for PC/AT) GPIB (IEEE-488) Support Microcode Cartridge for	51
3030	6184 (plant install only, req. FC5040)	295
5070	Programming Manual, 6184	22.25
6186-001	IBM Color Plotter, A-E size, 8-pen, cut sheet, RS-232C + RS-422A + IEEE-488 attach, pen speed	
	24in/sec, supports most HP 758xA drivers,	
	resolution 0.00098in, supplies kit	9900
6186-002	IBM Color Plotter, A-E size, 8-pen, roll or cut	9900
0100 002	sheet, RS-232C + RS-422A + IEEE-488 attach, pen speed 24in/sec, supports most HP 758xA drivers,	
	resolution 0.00098in, supplies kit	11900
5030	RS232C Cable between 6186 and PC (also req. FC0242	11900
3030	for PC/AT)	51
5040	IEEE-488 Cable for 6186 (order on 6186 for	102
5060	3270-PC/G/GX, additional, and for Infowindow) Drafting Plotter Supplies Kit, E Size, for 6186	392
5070	Programming Manual, 6186	35.75
3070	Programming Manual, 6166	33.73
7372-001	f IBM Color Plotter, B-size, 6-pen, pen speed 15in/sec (pen down), 20in/sec (pen up), resolution	
	0.001in	1900
	f RS-232-C Attachment Specify	N/C
	f IEEE-488 Attachment Specify	N/C
7374-001	IBM Color Plotter, D-size, 8-pen,	
	switch-selectable RS-232-C and IEEE-488 interface,	
	pen speed 24in/sec, resolution 0.001in (W/D	10000
	6/3/87)	10000

MODEL/FC V	PA DESCRIPTION	PRICE
7375-001	IBM Color Plotter, E-size, 8-pen, sheet feed, switch-selectable RS-232-C and IEEE-488 interface, pen speed 24in/sec, resolution 0.001in (W/D	
7375-002	6/3/87) IBM Color Plotter, E-size and 36in roll,8-pen, switch-selectable RS-232-C and IEEE-488 interface, pen speed 24in/sec, resolution 0.001in (W/D	13100
5030	6/3/87) RS232C Cable between 7371/2/4/5 and PC (W/D	17200
2720020	6/3/87) IEEE-488 Cable for 737X (order on 737X, for	51
	3270-PC/G/GX, additional, W/D 6/3/87)	102
5796-BDZ 5668-860	Industry Standard Plotting Commands interface for CADAM, CATIA, CAEDS, CBDS, and GDQF for 7371/2/4/5 on host-attached PCs, Central service to 12/85 IBM Color Plotter Support for the GDDM Graphics	395
	Data File for 7371/2/4/5 on host-attached PCs, Warranted, Central service 6 mo. notice	1100
DIRECT-ACC	ESS STORAGE DEVICES, EXTERNAL	
4869-001	b External Diskette Drive, 5.25in for Personal System/2 (360KB) Req. FC 8750 for attachment to 8530, FC 8760 for other models (5/87)	335
S68X-2272	Technical Reference Supplement, 4869-1 External Diskette Drive	??
S68X-2273	Hardware Maintenance Update (HMS & HMR), 4869-1 External Diskette Drive	??
3363-B01	b External Optical Disk Drive (200MB, removable media, write once) (attaches to 3363-A01, -A11, FC 8700) (2Q87)	2365
63X4199	IBM Optical Disk Cartridge for 3363 (order via IBM Direct)	65
GC35-0104	Guide to Operations, 3363 Optical Disk Drive	
SY32-7012	(order via PCTB) Technical Reference Manual, 3363 Optical Disk	??
SY32-7007	Drive (order via PCTB) Hardware Maintenance Service Manual, 3363 Optical Disk Drive (order via PCTB)	??
TAPE BACKU	P DEVICES	

6157-001 c Streaming Tape Drive

1795

MODEL/FC VPA DESCRIPTION

PRICE

IMAGE DEVICES

4555 a	3117 Extension Unit (connects 3117, PC family, req. PC async adapter and cable or High Speed	
	RS422 Adapter)	700
3117 - 010 j	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		75.50
SY18-2105	3117 Scanner Technical Reference	26
3118-010 ј	Scanner (12 sec/page, 240x240 pel resolution, feed-through, paper size to 8.5x14, req.	
	High-Speed Adapter or async interface)	2350
3118-020 j	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
6456893	Automatic Document Feed to upgrade 3118-010 to	
	3118-020 (through 4/87)	400
GA18-2475	3118 Scanner Guide to Operations	28.50
65X1814	Upgrade 3118 Scanner Guide to Operations for	
	Automatic Document Feed (through 4/87)	36.95
SY18-2158	3118 Scanner Hardware Maintenance and Service	58
SC18-2104	3118 Scanner Technical Reference	33.75

COMMUNICATIONS DEVICES, CROSS-SYSTEM

IBM TOKEN-RING NETWORK

8228-001	Multistation Access Unit (attaches up to 8	
	devices, also attaches to other 8228's)	660
1078	IBM Cabling System Component Housing	99
8218-001	Token-Ring Network Copper Repeater (Extends drive	
	distance to 750 meters between 8228s)	1095
3001	Rack Mounting Assembly	300
3002	Surface Mounting Brackets	20
8219-001	Token-Ring Network Optical Fiber Repeater (Extends	
	drive distance to 2km between 8228s)	1650
3001	Rack Mounting Assembly	300
3002	Surface Mounting Brackets	20
8642551	Precut Token-Ring Patch Cable, 8ft, with Cabling	
	System Connectors	38

MODEL/FC VPA	A DESCRIPTION	PRICE
8642552 6339134	Precut Token-Ring Patch Cable, 30ft, with Cabling System Connectors Precut Token-Ring Patch Cable, 23m, with Cabling	55
6220125	System Connectors Propert Takes Prince Particle Calling (Connection)	118
6339135	Precut Token-Ring Patch Cable, 46m, with Cabling System Connectors	195
TOKEN-RING N	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 GG24-3062	IBM Token-Ring Network Administrator's Guide IBM Token-Ring Network Bridges and Management	N/C N/C
IBM PC NETWO	PRK	
GG24-1691 S68X-2270	IBM PC Network and PC Network Program Introduction IBM NETBIOS Application Development Guide	N/C 49.25
	PC Network Translator Unit	595
S68X-2228	120V Transformer IBM Translator Unit and Cabling Options Technical	N/C
	Reference	9.25
S68X-2268	IBM PC Network Broadband Planning Guide	13.50
0230 a	Base Expander (for 9-72 PC's)	59
	Distance Kits (Adapter to Attach 8 PC's to Base Expander)	
	NOTE: Must order appropriate cabling segments in addition	
	Short Distance Kit (w/1-foot cord)	39
	Medium Distance Kit (requires 2 x FC 0237) Long Distance Kit (requires 4 x FC 0237)	79 89
	Cabling Segments (Attach PC to Distance Kit/Translator, and Distance Kit to Base Expander	
0234 a	25-Foot Cabling Segment	29

As of April 6, 1987

MODEL/FC VP	A DESCRIPTION	PRICE
0235 a	50-Foot Cabling Segment	39
0236 a	100-Foot Cabling Segment	59
0237 a	200-Foot Cabling Segment	99
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	IBM 5173 PC Network Baseband Extender (Separate VPA, joins up to 10 daisy-chains of up to 8	
S68X-2266	workstations, extends maximum radius to 400ft) IBM PC Network Baseband Extender Technical	750
	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	
2 Houg	
J	5150-104 Expansion Slot Usage
J	5150-104 Expansion Slot Usage
J	5150-104 Expansion Slot Usage Item
Figure 38.	
Figure 38. Slot Type 1 Long 2 Long	
Figure 38. Slot Type 1 Long	

PC/XT (5160)

Slot	Туре	Item
1 2 3 4 5 6 7 8	Long Long Long Long Long Short Short	Diskette Adapter
Figu	re 40.	5160-068, -078 Expansion Slot Usage

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

PC/XT/370 (5160-589)

Slot	Туре	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	
Figu	re 42.	5160-589 Expansion Slot Usage

PC/XT 286 (5162-286)

уре	Item					
8-bit						
6-bit						
6-bit	Serial/Parallel Adapter					
6-bit						
6-bit						
	DASD Controller Adapter					
	-					
43.	5162-286 Expansion Slot Usage					
	8-bit 6-bit 6-bit 6-bit 6-bit 6-bit 8-bit 8-bit	8-bit 6-bit 6-bit Serial/Parallel Adapter 6-bit 6-bit 6-bit 6-bit DASD Controller Adapter 8-bit short 8-bit short	8-bit 6-bit 6-bit Serial/Parallel Adapter 6-bit 6-bit 6-bit 6-bit DASD Controller Adapter 8-bit short 8-bit short	8-bit 6-bit 6-bit Serial/Parallel Adapter 6-bit 6-bit 6-bit 6-bit DASD Controller Adapter 8-bit short 8-bit short	8-bit 6-bit 6-bit Serial/Parallel Adapter 6-bit 6-bit 6-bit 6-bit DASD Controller Adapter 8-bit short 8-bit short	8-bit 6-bit 6-bit Serial/Parallel Adapter 6-bit 6-bit 6-bit 6-bit 6-bit DASD Controller Adapter 8-bit short 8-bit short

PC/AT (5170)

```
Slot Type
            Item
 1
      8-bit
 2
     16-bit
 3
     16-bit
 4
     16-bit
 5
     16-bit
     16-bit
 6
 7
      8-bit
     16-bit DASD Controller Adapter
Figure 44. 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
     16-bit DASD Controller Adapter
Figure 45. 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	
		5170-495 Expansion Slot Usage	

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

Slot	Type	Item		
	0.1			
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		
Figu	re 47.	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 either side of the Display Adapter, i.e., either slot 2 or slot 4.

			· · · · · · · · · · · · · · · · · · ·	 	
Slot 7	Гуре	Item			
	Long	3270 System Adapter			
	Long				
3	Long	Display Adapter			
4	Long				
5	Long				
	Long	Diskette Adapter			
	Short	•			
	Short	Keyboard Adapter			
Figure	e 48.	5271-002 Expansion Slot Usage			

Slot	Туре	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	
Figu	re 49.	5271-004 Expansion Slot Usage

Slot	Type	Item
1 2	Long Long	3270 System Adapter
3 4	Long Long	Display Adapter
5	Long	Fixed Disk Adapter
6	Long	Diskette Adapter
7	Short	Printer/Memory Adapter
8	Short	Keyboard Adapter
Figu	re 50.	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	Туре	Item	
1 2	Long Long	3270 System Adapter	
3 4 5	Long Long Long	Display Adapter (3295)	
6	Long	Diskette Adapter	
7	Short	Printer/Memory Adapter	
8	Short	Keyboard Adapter	
Figu	re 51.	5271-024 Expansion Slot Usage	

Slot	Туре	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		
Figu	re 52.	5271-026 Expansion Slot Usage		

Slo	t Type	Item		
1 2	Long Long	Printer Adapter		
3	Long	Display Adapter		
4 5	Long Long			
6	Long	Diskette Adapter		
7	Short	3270 System Adapter		
8	Short	Keyboard Adapter		
Fig	ure 53.	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		
Figu	re 54.	5271-031, -P31, -051, -P51 Expansion Slot Usage		

Slot	Туре	Item
1 2	Long Long	Printer Adapter
3 4	Long Long	Display Adapter
5	Long	Fixed Disk Adapter
6 7	Long Short	3270 System Adapter
8	Short	Keyboard Adapter
Figu	re 55.	5271-070, -P70 Expansion Slot Usage

Slot	Туре	Item
1 2	Long Long	Expanded Memory/Printer Adapter
3	Long	Display Adapter
4	Long	
5	Long	Fixed Disk Adapter
6	Long	Diskette Adapter
7	Short	3270 System Adapter
8	Short	Keyboard Adapter
Figu	re 56.	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	Туре	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
Figu	re 57.	5273-020 Expansion Slot Usage

Slot	Туре	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					
Figu	re 58.	5273-041 Expansion Slot Usage					

Slot	Type	Item			
•	0.1.4	D. 1. Al.			
Ţ		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			
Figur	e 59.	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		Keyboard Adapter
6	16-bit	Serial/Parallel Adapter
7		3270 System Adapter
8		DASD Controller Adapter
Figur	re 60.	5273-061 Expansion Slot Usage

```
Slot Type
            Item
      8-bit Display Adapter
 2
     16-bit Extended Graphics Adapter
 3
     16-bit
 4
     16-bit Memory Adapter
     16-bit Keyboard Adapter
 5
     16-bit Serial/Parallel Adapter
     8-bit 3270 System Adapter
 7
     16-bit DASD Controller Adapter
 8
Figure 61. 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 62. 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 63. 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	•	
Figu	re 64.	5371-012 Expansion Slot Usage	
Slot	Туре	Item	
1	Long	Display Adapter	
2	_	3270 System Adapter	
3	Long Long	3270 System Adapter	
4	Long	Keyboard/Tablet/Mouse	
5	Long	keyboard/lablet/house	
6	Long	Diskette Adapter	
7	Short	Printer Adapter	
8	Short	Trinter Adapter	
Figu	re 65.	5371-014 Expansion Slot Usage	
Slot	Туре	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		
8	Short		
Figu	re 66.	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
     16-bit Display/Mouse/Tablet
 7
     8-bit Serial/Parallel Adapter
     16-bit DASD Controller Adapter
 8
Figure 67. 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 68. 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		DASD Controller Adapter

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				
Figu	re 70.	5373-X29, -X39 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 specificiation 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)

уре	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 A	WG	
5	Optical Fiber	L00/140	4716744	
		micron		
6	Patch Cable	26 AWG	4716743	
8	Undercarpet	26 AWG		
9	Plenum Data Cable	26 AWG	6339583	

Figure 71. Cabling System Characteristics

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 72. 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 $1200 \mathrm{bps}$ and $2400 \mathrm{bps}$. Existing ASKINFO users who elect to change to $2400 \mathrm{bps}$ support from $1200 \mathrm{bps}$ 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
- 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 FDUCATION

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

As of April 6, 1987

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.

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 131,
- "Support Publications Managing End User Computing" on page 131,
- "IBM Information Systems Management Institute" on page 163,
- "Technical Seminars" on page 166,
- "Science Research Associates Leased Courses" on page 164.

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 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 cer-

tain 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.

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.

Order No.	Price		
0205545	Ş 49J		
			*
6265215	30		
6265344	150		
	30		
	6265343 6265215	6265343 \$ 495 6265215 30 6265344 150	6265343 \$ 495 6265215 30 6265344 150

Figure 73. 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.	6265396	\$ 495	
Support Journal Subscription			
Program Service			
Telephone Assistance			
Program Updates			
Automatic Renewal Available			
thru 2/28/88			
Additional Charge Options:			
Additional Journal Subscription	6265398	30	
Single Incident Service	6265397	125	
Program Updates, per update		30	

Figure 74. Extended Support - Personal Decision Series Version 2

The following programs are covered as part of the Personal Decision Series Version 2

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

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

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.	6265409	\$ 395	
Support Journal Subscription			
Program Service			
Telephone Assistance			
Program Updates			
Automatic Renewal: Not Available			
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			

	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			

	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	

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

• IBM PC Organizer

As of April 6, 1987

- 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

	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 Subscript	ion		
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	

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 Subscript	ion			
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		

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.	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 81. 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 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 then 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

As of April 6, 1987

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

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 82. NSD Support Eligible Programs

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 it is determined that a non-IBM option card is the cause of the reported failure, IBM's normal billing guidelines will be followed.

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.

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 FXCHANGE

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.

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.

MAINTENANCE OPTIONS - SYSTEM UNITS AND PERIPHERALS

			IBM	IBM	Cust.	Carry	Carry
	TYPE/MODEI	L DESCRIPTION	On-Site	On-Site	On-Site	In	In
			Repair	Exch.	Exch.	Exch.	Repair
			#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
1	3363-A01	Optical Disk Dr	288.00	N/A	N/A	N/A	N/A
ĺ	3363-A11	Optical Disk Dr	288.00	N/A	N/A	N/A	N/A
١	3363-B01	Optical Disk Dr	264.00	N/A	N/A	N/A	N/A
ĺ	3852-001	Color Ink-Jet Prtr	N/A	137.00	124.00	98.00	87.00
	3852-002	Color Jetprinter	N/A	109.00	87.00	78.00	78.00
	4201-001	Proprinter	N/A	41.00	35.00	30.00	30.00
	4201-002	Proprinter II	49.00	N/A	N/A	N/A	38.00
	4202-001	Proprinter XL	N/A	105.00	90.00	85.00	55.00
	4207-001	Proprinter X24	102.00	N/A	N/A	N/A	85.00
	4208-001	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	N/A	162.00	137.00	131.00	131.00
	4683-002	POS Terminal	N/A	72.00	56.00	52.00	52.00
	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	24.00	22.00	22.00
	4865-001	Ext. 3.5in Diskette	N/A	31.00	26.00	22.00	N/A

AS OI APITI 6, 1987	IBM	IBM	Cust.	Carry	Carry
TYPE/MODEL DESCRIPTION		On-Site		In	In
-	Repair	Exch.	Exch.	Exch.	Repair
	#9798		#9824	#9816	#9821
				· · ·	
4865-002 Ext. 3.5in Diskette	N/A		26.00	c 22.00	N/A
4869-001 Ext. 5.25in Diskette	•	19.00	13.00	N/A	N/A
4950-A00 S/1 PC, 10MB, 1 disk		•	N/A	N/A	633.00
4950-B00 S/1 PC, 1 disk	653.00	•	N/A	N/A	435.00
4971-001 S/1 Printer	N/A		118.00	104.00	101.00
5083-002 Digital Tablet	N/A	96.00	60.00	48.00	N/A
5083-11A Digital Tablet	N/A		35.00	32.00	N/A
5083-12A Digital Tablet	N/A		40.00	35.00	N/A
5140-002 Convertible 5140-022 Convertible	160.00	•	N/A	N/A	110.00
5140-022 Convertible 5144-001 Convertible Mono CRT	160.00	•	N/A 12.00	N/A	110.00
5145-001 Convertible Color CR			30.00	10.00 26.00	N/A
5150-001 System Unit	171.00	N/A	N/A	26.00 N/A	N/A 110.00
5150-013 System Unit	171.00		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	160.00
5150-104 System Unit-64K	171.00	•	N/A	N/A	110.00
5150-114 System Unit-1SS-64K	231.00	N/A	N/A	N/A	149.00
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		N/A	N/A	N/A	160.00
5150-166 System Unit-1DS-256K		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		N/A	N/A	N/A	160.00
5150-176 System Unit-2DS-256K		N/A	N/A	N/A	160.00
5150-813 System Unit 5150-823 System Unit	171.00	N/A	N/A	N/A	110.00
5150-823 System Unit 5151-001 Mono Display	171.00 N/A	N/A 29.00	N/A 19.00	N/A 16.00	110.00
5152-001/2 Printer	N/A		35.00	30.00	16.00 30.00
5153-001 Color Display	N/A		45.00	40.00	40.00
5154-001 Enhanced Color Disp	N/A	65.00	52.00	42.00	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-128KE	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	216.00
5160-268 XT-256KB,1 HH DS	312.00		N/A	N/A	216.00
5160-277 XT-256KB,2 HH DS	312.00		N/A	N/A	216.00
5160-278 XT-256KB,2 HH DS	312.00	* .	N/A	N/A	216.00
5160-470 4700 XT System Unit	312.00	-	N/A	N/A	216.00
5160-568 XT/370-1DS, 3277 5160-588 XT/370-10MB, 3277	482.00		N/A	N/A	325.00
5160-588 XT/370-10MB, 3277 5160-589 XT/370-10MB, 2-card	650.00 650.00	•	N/A	N/A	457.00
5161-001/2 Expansion Unit	293.00	•	N/A N/A	N/A N/A	457.00 212.00
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
		-1/ 44	1/ -1	-1/	

AS OF APRIL 6, 1907						
made (Modes	T DECORTORION	IBM	IBM	Cust.	Carry	Carry
TYPE/MODE	L DESCRIPTION		On-Site		In.	In
		Repair	Exch.	Exch.	Exch.	Repair
		#9798	#9830	#9824	#9816	#9821
F167 001	TEMPEGE Mana Diami	NT / A	60.00	57.00	FO 00	NT / A
5167-001	TEMPEST Mono Displ	N/A	69.00	57.00	52.00	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
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	50.00	41.00	41.00
5181-001	Compact Printer	N/A	18.00	14.00	11.00	11.00
5182-001	Color Printer	N/A	587.00	473.00	379.00	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
5216	Wheelprinter	N/A	195.00	155.00	125.00	100.00
5223-001	Wheelprinter E	N/A	126.00	90.00	72.00	60.00
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	90.00	70.00	55.00	65.00
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	
5273-P71	3270PCAT 30MB,XMA	546.00	N/A	N/A	N/A	
5273-070	3270PCAT 30MB,640KB	546.00	N/A	N/A	N/A	
5273-071	3270PCAT 30MB,XMA	546.00	N/A	N/A	N/A	375.00
		_		, -		

AS OF APT	11 6, 1967	TDV	TDM			_
MADE (MODE)	DECCETOMICS	IBM	IBM	Cust.	Carry	Carry
TYPE/MODEI	DESCRIPTION		On-Site		In	In
		Repair	Exch.	Exch.	Exch.	Repair
		#9798	<i>‡</i> 9830	#9824	#9816	#9821
5277-001	Mouse	N/A	48.00	36.00	30.00	N/A
5278-001	Display Attach Unit	N/A	135.00	101.00	88.00	
5278-002	Display Attach Unit	N/A	135.00	101.00	88.00	N/A
5279-001	14in Display (G)	N/A	26.00	20.00	17.00	81.00 16.00
5371-012	3270PC/G,GX-1DS-384K					
5371-012	3270PC/G,GX-1DS-384K		N/A	N/A	N/A	235.00
5371-014	3270PC/G,GX-2D3-312K		N/A	N/A	N/A	235.00
5373-012	3270-PC/AT G/GX	514.00	N/A	N/A	N/A	483.00
5373-012	•		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
5373-010	3270-PC/AT G/GX	514.00	N/A	N/A	N/A	339.00
5373-160 5373-A60	3270-PC/AT G/GX	534.00	N/A	N/A	N/A	352.00
5373-A60 5373-161	3270-PC/AT G/GX	534.00	N/A	N/A	N/A	352.00
5373-161 5373-A61	3270-PC/AT G/GX	534.00	N/A	N/A	N/A	352.00
	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
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)		N/A	N/A	N/A	186.00
5378-M01	Display Att(PC/GX-M)		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 5531-021	Indus PC(1 diskette)		N/A	N/A	N/A	180.00
5532	Indust PC	586.00	N/A	N/A	N/A	372.00
5841-001	Indust PC Display	N/A	266.00	213.00	170.00	170.00
5842-001	IBM Sync/Async Modem IBM Sync/Async Modem	•	68.00	37.00	31.00	31.00
6153-001	• • •	•	66.00	36.00	30.00	30.00
6154-001	Adv Mono Graf Displa Adv Color Graf Dislp	-	69.00	63.00	60.00	N/A
	-		170.00	164.00	160.00	N/A
6155-001 6157-001	Ext Mono Graf Displa Streaming Tape Drive	•	105.00	98.00	94.00	N/A
6180-001	A-Size Plotter, RS23	•	140.00	132.00	130.00	N/A
6180-002	•	•	84.00	60.00	45.00	41.00
6186	A-Size Plotter, IEEE4 A-E Size Plotter	-	84.00	60.00	45.00	41.00
7371-001	Color Plotter	360.00	N/A	N/A	N/A	N/A
7371-001	Color Plotter	N/A	183.00	119.00	102.00	88.00
7572-001 7531 - 041	Indust PC/AT	N/A	213.00	136.00	113.00	99.00
7532-041	Indust PC/AT	420.00	N/A	N/A	N/A	N/A
7534-001	Enh. Indust PC Displa	420.00	N/A	N/A	N/A	N/A
7552-040	-		88.00	70.00	56.00	56.00
7552-140	Indust PC/AT Indust PC/AT, 10MB	804.00 1176.00	N/A	N/A	N/A	N/A
8218-001	Token Copper Repeate		N/A	N/A	N/A	N/A
8219-001	Token Optic Repeater	• •	N/A	20.00	18.00	N/A
8228-KT1		•	N/A	55.00	50.00	N/A
8228-KT2	Token Starter Kit Token Starter Kit	N/A	N/A	50.00	45.00	N/A
8228-KT3	Token Starter Kit/A	N/A	N/A	50.00	45.00	N/A
8228-001	Multist'n Access Uni	N/A	N/A	50.00	45.00	N/A
8503	Pers Sys/2 Mono Disp		N/A	50.00	45.00	N/A
8512	_	-	9.00	8.00	N/A	N/A
0312	Pers Sys/2 Color Dis	p N/A	10.00	9.00	N/A	N/A

			IBM	IBM	Cust.	Carry	Carry
TYPE/MODE	L DI	ESCRIPTION	On-Site	On-Site	On-Site	In	In
			Repair	Exch.	Exch.	Exch.	Repair
			#9798	<i>#</i> 9830	<i>#</i> 9824	#9816	#9821
8513	Pers	Sys/2 Color	r Disp N/A	11.00	10.00	N/A	N/A
8514	Pers	Sys/2 Colo	r Disp N/A	46.00	44.00	N/A	N/A
8530	Pers	System/2 Me	dl 30 N/A	160.00	25.00	N/A	N/A
8550-021	Pers	System/2 Me	dl 50 180.00	N/A	N/A	N/A	N/A
8560-041	Pers	System/2 Me	dl 60 190.00	N/A	N/A	N/A	N/A
8560-071	Pers	System/2 M	dl 60 210.00	N/A	N/A	N/A	N/A
8580-041	Pers	System/2 M	dl 80 220.00	N/A	N/A	N/A	N/A
8580-071	Pers	System/2 Me	dl 80 260.00	N/A	N/A	N/A	N/A
8580-111	Pers	System/2 M	dl 80 305.00	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 Buf	fr N/A	80.00	70.00	65.00	65.00
	Hayes Transet 512K Buf	•	90.00	80.00	75.00	75.00
	HP 7470A Color Plotter	•	145.00	135.00	130.00	
	HP 7475A Color Plotter		165.00	155.00	150.00	
	HP 7550A Color Plotter	•	275.00	265.00	260.00	
	HP Thinkjet Printer	N/A	130.00	120.00	115.00	
	Epson FX-185	N/A	120.00	110.00	105.00	105.00
1551-A01	Epson FX-100, 100+	N/A	120.00	110.00	105.00	
	Okidata ML93A	N/A	190.00	170.00	130.00	130.00
1552-B01	Okidata ML93I	N/A	190.00	170.00	130.00	130.00
1556-S01	Amdek 310-A Display	N/A	45.00	35.00	30.00	30.00
	Tecmar Q60H	N/A	160.00	150.00	135.00	135.00
1561-A01	Tecmar Q60W20	N/A	510.00	490.00	470.00	470.00
1561-B01	Tecmar Q60W20AT	N/A	965.00	935.00	925.00	925.00
1575-A01	Hayes Smartmodem 300	N/A	80.00	70.00	65.00	65.00
1575-B01	Hayes Smartmodem 1200	N/A	110.00	100.00	95.00	95.00
1580-A01	Amdek 300A	N/A	50.00	40.00	35.00	35.00
1580-B01	Amdek 300	N/A	50.00	40.00	35.00	35.00
1581-A01	Giltronix Sharing Devi		130.00	120.00	86.00	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
		105.00	N/A	N/A	N/A	95.00
	AST Advantage 1125	115.00	N/A	N/A	•	105.00
	AST Advantage 1125S	115.00	N/A	N/A	N/A	105.00
	AST Advantage 1500	125.00	N/A	N/A		115.00
	AST Advantage 1500S	125.00	N/A	N/A	•	115.00
	AST Advantage 3000	160.00	N/A	N/A		150.00
	AST Advantage 3000S	160.00	N/A	N/A	•	150.00
	Emulex DCP 88VM 512K	120.00	N/A	N/A	•	110.00
	• • • • • • • • • • • • • • • • • • •	280.00	N/A	N/A	•	270.00
3042	Forte PJ	215.00	N/A	N/A	•	205.00
	Hercules Color Card	45.00	N/A	N/A	N/A	
	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

As of April	6, 1987	T 75 1	T. D. C		_	_
MADE WORDS	DD CCD TDMTC.	IBM	IBM	Cust.	Carry	Carry
TYPE/MODEL	DESCRIPTION		On-Site		In	In
		Repair	Exch.	Exch.	Exch.	Repair
		#9798	#9830	#9824	#9816	#9821
2016 AG	7 / Dt		37.4 A	37.44		
3046 AS		40.00	N/A	N/A	N/A	
	I/O Plus II 1S	40.00	N/A	N/A	N/A	
	I/O Plus II 2S	40.00	N/A	N/A	N/A	
	I/O Plus II 1S/1		N/A	N/A	N/A	
	I/O Plus II 2S/1		N/A	N/A	N/A	
	Preview	40.00	N/A	N/A	N/A	
	Ramvantage 128K	70.00	N/A	N/A	N/A	
	Ramvantage 512K	70.00	N/A	N/A	N/A	
	Ramvantage 1MB	80.00	N/A	N/A	N/A	
	Ramvantage 3MB	100.00	N/A	N/A	N/A	
	Rampage 256K	40.00	N/A	N/A	N/A	
	Rampage 512K	45.00	N/A	N/A	N/A	
	Rampage 1MB	50.00	N/A	N/A	N/A	
	Rampage 2MB	65.00	N/A	N/A	N/A	60.00
	Rampage 256K I/O		N/A	N/A	N/A	40.00
	Rampage 512K I/O		N/A	N/A	N/A	45.00
	Rampage 1MB I/O	60.00	N/A	N/A	N/A	55.00
	Rampage 2MB I/O	70.00	N/A	N/A	N/A	65.00
	Rampage AT 512K	80.00	N/A	N/A	N/A	75.00
3066 AS	Rampage AT 1MB	90.00	N/A	N/A	N/A	85.00
	Rampage AT 2MB	100.00	N/A	N/A	N/A	95.00
3068 AS	Rampage AT512K I	0 85.00	N/A	N/A	N/A	80.00
3069 AST	Rampage AT 1MB I	0 95.00	N/A	N/A	N/A	90.00
3070 AS	Rampage AT 2MB I	0 105.00	N/A	N/A	N/A	100.00
3071 AS	Rampage AT512K I	OS 90.00	N/A	N/A	N/A	85.00
3072 AS	Rampage AT1MB IO	S 100.00	N/A	N/A	N/A	95.00
3073 AS	Rampage AT2MB IO	S 110.00	N/A	N/A	N/A	100.00
3100 AS	I/O Mini 1S	40.00	N/A	N/A	N/A	35.00
	7 I/O Mini 1S, 1P	40.00	N/A	N/A	N/A	35.00
3102 AS	T I/O Mini 2S	40.00	N/A	N/A	N/A	35.00
3103 AS	7 I/O Mini 2S, 1P	40.00	N/A	N/A	N/A	35.00
6714 Ta	llgrass Tape Backu	p 110.00	N/A	N/A	N/A	105.00
7600 Hay	es Smartmodem 120	OB 65.00	N/A	N/A	N/A	55.00
7602 Ch:	Sperry Emulation	80.00	N/A	N/A	N/A	70.00
7603 Ch:	Sperry Emulation	80.00	N/A	N/A	N/A	70.00
7612 Em	lex DCP-88/VM-128	K 120.00	N/A	N/A	N/A	110.00
7613 Em	lex DCP-88/VM-256	K 150.00	N/A	N/A	N/A	140.00
7619 AS	FourPort/XN	40.00	N/A	N/A	N/A	35.00
7625 IRI	MA, 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 AS	3780BSCRJE,1596S	01 50.00	N/A	N/A	N/A	
7700 Ted	mar PCHOST	55.00	N/A	N/A	N/A	
7701 Tec	mar Q60AT	235.00	N/A	N/A	•	215.00
7800 AS	COMBOPLUS, 1596A0	1 50.00	N/A	N/A	N/A	
	MEGAPLUS, 1597A01		N/A	N/A	N/A	
	MEGAPAK, 1597A01	50.00	N/A	N/A	N/A	
	SPK064,1597A01	50.00	N/A	N/A	N/A	
	SPK192,1597A01	50.00	N/A	N/A	N/A	
	SPK384,1597A01	55.00	N/A	N/A	N/A	
	mar Jr.Captain	50.00	N/A	N/A	N/A	
	cmar Jr.Cadet	50.00	N/A	N/A	N/A	
	cmar Maestro 128K	50.00	N/A	N/A	N/A	
			,		21, 21	

			IBM	IBM	${\tt Cust.}$	Carry	Carry
TYPE/MODE	L DESCRIPTION	1	On-Site	On-Site	On-Site	In	In
			Repair	Exch.	Exch.	Exch.	Repair
			#9798	#9830	#9824	#9816	#9821
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
		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	N/A	22.00	13.00	12.00	12.00
	3322	Alphanum Keyboard	N/A	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	N/A	17.00	10.00	8.00	8.00
	3340	Operator Display	N/A	21.00	12.00	10.00	10.00
	3343	40 Char Display	N/A	19.00	14.00	13.00	13.00
	3352	346mm Color Display	N/A	48.00	34.00	31.00	31.00
	3354	300mm Display	N/A	116.00	98.00	93.00	93.00
	3360	Cash Drawer, Fixed	N/A	19.00	13.00	11.00	11.00
	3361	Cash Drawer, Adj.	N/A	19.00	14.00	12.00	12.00
	3380	Printer	N/A	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	N/A	30.00	22.00	19.00	19.00
	4001	Feature Expan B	N/A	9.00	6.00	5.00	5.00
	4002	Feature Expan C	N/A	22.00	16.00	14.00	14.00
	4003	Feature Expan D	N/A	31.00	26.00	24.00	24.00
	4010	Mag Stripe Reader	N/A	7.00	5.00	4.00	4.00
	4014	Scanner Adapter	N/A	7.00	4.00	3.00	3.00
	4016	Mag Wand Reader	N/A	103.00	80.00	73.00	73.00
•	4771	Voice Commo Option	See FC	4839			
		Voice Commo Adapter	40.00	N/A	N/A	N/A	30.00
		Internal Async Modem	12.00	N/A	N/A	N/A	6.00
		Internal Async Modem	12.00	N/A	N/A	N/A	6.00
		Token-Ring Adapt II	65.00	N/A	N/A	N/A	55.00
		PC 3278 Attach Opt	36.00	N/A	N/A	N/A	24.00
5		3278 PC Attach	36.00	N/A	N/A	N/A	24.00
		PC 3279 Attach Opt	36.00	N/A	N/A	N/A	24.00
5	325/6	3279 PC Attach	36.00	N/A	N/A	N/A	24.00

As of April 6, 1987					
	IBM	IBM	Cust.	Carry	Carry
TYPE/MODEL DESCRIPTION	On-Site	On-Site	On-Site	In	In
	Repair	Exch.	Exch.	Exch.	Repair
	#9798	#9830	#9824	#9816	#9821
6017/8 Indus Disk/Adapt	306.00	N/A	N/A	N/A	198.00
6019 Indus Hi-Cap D'ette		N/A	•		N/A
6045 Indus 2-Side D'ette		N/A		-	•
6050 ARTIC, 128KB	72.00	N/A		•	•
6115 AT/370 Option Kit		N/A		•	109.00
6160 ARTIC, 512KB	72.00	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
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	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
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/MODE	L DESCRIPTION	IBM On-Site Repair #9797	IBM On-Site Exch. #9799	Cust. On-Site Exch. #9826	Cust. 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	
1	3363-A01	Optical Disk Dr	12.00	N/A	N/A	
i	3363-A11	Optical Disk Dr	12.00	N/A	N/A	
İ	3363-B01	Optical Disk Dr	12.00	N/A	N/A	
İ	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(FC9876,97	73) 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 Pageprinte	r 72.00	N/A	N/A	
	4683-001	POS Terminal	N/A	129.00	104.00	
	4683-002	POS Terminal	N/A	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(FC9876/977		9.00	4.00	
	4865-002	3.5in Dr(FC9876/977		9.00	4.00	
	4869-001	Ext. 5.25in Diskett	•	56.00	50.00	
	4950-A00	S/1 PC, 10MB, 1 dis		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	•	N/A	N/A	
	5140-022	Convertible (FC9805	•	N/A	N/A	
	5144-001	Conv. Mono CRT (FC987		9.00	N/A	
	5145-001	Conv.Color CRT(FC98		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		N/A	N/A	
	5150-X14	System Unit-1SS-64K		N/A	N/A	
	5150-164	System Unit-1DS-64K		N/A	N/A	
	5150-X64	System Unit-1DS-64K	218.00	N/A	N/A	

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TYPE/MODE	L DESCRIPTION (Carry-In
	and the second s	Repair		Exch.	Exch.
		#9797	#9799	#9826	#9814
5150 - X66	System Unit-1DS-256K	218 00	N/A	N/A	
5150-166	System Unit-1DS-256K		N/A	N/A	
5150-174	System Unit-2DS-64K		N/A	N/A	
5150 174 5150-X74	System Unit-2DS-64K		N/A	N/A	
5150-X76	System Unit-2DS-256K		N/A	N/A	
5150-176	System Unit-2DS-256K		N/A		
5151-001	Mono Display	N/A	25.00	15.00	
5152-001/2		N/A	34.00	28.00	
5153-001	Color Display	N/A		35.00	
5154-001	Enhanced Color Disp	N/A	25.00	20.00	
5155-068	Portab.PC-1DS-256KB	90.00	23.00 N/A	N/A	
5155-076	Portab.PC-2DS-256KB	90.00	N/A		
5160-068	System Unit XT-1 DS	258.00	N/A		
5160-078	System Unit XT-2 DS	258.00	N/A		
5160-086	System Unit XT-256KB	396.00			
5160-087	System Unit XT-128KB	396.00	N/A	N/A	
5160-088	XT-512KB, 20MB	396.00	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		N/A	N/A	
5160-277	XT-256KB,2 HH DS	258.00 258.00	N/A	N/A	
5160-278	XT-256KB,2 HH DS	258.00	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	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		
	2 Expansion Unit	240.00	N/A	-	
5161-003	Expansion Unit 20MB	375.00	N/A		
5162-286	Expansion Unit 20MB	96.00	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	
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		IBM	IBM	Cust.	Cust.
TYPE/MODE	L DESCRIPTION				Carry-In
•		Repair	Exch.	Exch.	Exch.
		#9797	#9799		#9814
		117777	170700	17020	17 7 0 1 4
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	-	
5271-004	3270PC-2DS,320/384K	N/A	N/A		
5271-006	3270PC-10MB, 320/384	•	N/A		
5272-001	3270PC-Display	N/A	N/A		
5273-020	3270PCAT-1HC	168.00	N/A		
5273-041	3270PCAT-2HC	168.00	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		
5273-071	3270PCAT (FC9805)	218.00	N/A		
5373-012	3270PCAT/G/GX Sys	218.00	N/A	•	
5373-014	3270PCAT/G/GX Sys	218.00	N/A		
5373-016	3270PCAT/G/GX Sys	218.00	N/A		
5373-160	3270PCAT/G/GX Sys	226.00	N/A		
5373-A60	3270PCAT/G/GX Sys	226.00	N/A		
5373-161	3270PCAT/G/GX Sys	226.00	N/A		
5373-A61	3270PCAT/G/GX Sys	226.00	N/A		
5373-162	3270PCAT/G/GX Sys	226.00	N/A		
5373-A62	3270PCAT/G/GX Sys	226.00	N/A		
5373-A29	3270PCAT/G (FC9805)	230.00	N/A		
5373-A39	3270PCAT/GX(FC9805)	230.00	N/A		
5373-E29	3270PCAT/G (FC9805)	230.00	N/A	-	
5373-E39	3270PCAT/GX(FC9805)	230.00	N/A		
5531-001	Indust PC	515.00	N/A		
5531-011	Indus PC(1 diskette		N/A		
5531-021	Indust PC	515.00	N/A		
5532	Indust PC Display	N/A	234.00	174.00	
5841 - 001	IBM Sync/Async Moder		37.00		
5842-001	IBM Sync/Async Moder			6.00	
6157-001			36.00	6.00	
6180-001	Streaming Tape Drive		10.00	2.00	
6180-001	A-Size Plotter, RS2		69.00	49.00	
	A-Size Plotter, IEEE	-	69.00	49.00	
7371-001	A-Size Plotter	N/A	161.00	97.00	00.00
7372-001	B-Size Plotter	N/A	187.00	111.00	88.00
7534-001	Enh. Indust PC Displa		34.00	27.00	
8218-001	Token Copper Rpt(FC		N/A	2.00	
8219-001	Token Optic Rptr(FC		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 Un	•	N/A	5.00	
8503	Pers Sys/2 Mono Disp		5.00	4.00	
8512	Pers Sys/2 Color Dis	-	5.00	4.00	
8513	Pers Sys/2 Color Dis	-	5.00	4.00	
8514	Pers Sys/2 Color Dis	-	9.00	7.00	
8530	Pers System/2 Md1 3	•	115.00	25.00	
8550-021	Pers System/2 Mdl 50	25.00	N/A	N/A	

TYPE/MODEL DESCRIPTION On-Site On-Site Carry Repair Exch. Exch. Exch. #9797 #9799 #9826 #9816	
#9797 #9799 #9826 #981	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4
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	
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	
8580-111 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	N/A	19.00	10.00
3322	Alphanumeric Keyboard	l N/A	34.00	21.00
3326	20MB Fixed Disk	135.00	N/A	N/A
3339	Shopper Display	N/A	15.00	8.00
3340	Operator Display	N/A	19.00	10.00
3343	40 Char Display	N/A	16.00	11.00
3352	346mm Color Display	N/A	40.00	26.00
3354	300mm Display	N/A	93.00	75.00
3360	Cash Drawer, Fixed	N/A	16.00	10.00
3361	Cash Drawer, Adj.	N/A	16.00	11.00
3380	Printer	N/A	93.00	65.00
3891	XT/370 Option, 3277	150.00	N/A	N/A
4000	Feature Expan A	N/A	25.00	17.00
4001	Feature Expan B	N/A	8.00	5.00
4002	Feature Expan C	N/A	19.00	13.00
4003	Feature Expan D	N/A	25.00	20.00
4010	Mag Stripe Reader	N/A	6.00	4.00
4014	Scanner Adapter	N/A	6.00	3.00

		IBM	IBM	Cust.	Cust.
TYPE/MODE	L DESCRIPTION	On-Site	${\tt On\text{-}Site}$	${\tt On\text{-}Site}$	Carry-In
		Repair	Exch.	Exch.	Exch.
		#9797	<i>‡</i> 9799	#9826	#9814
4016	Mag Wand Reader	N/A		62.00	
4771	Voice Commo Option	See FO	4839		
4839	Voice Commo Adapter	11.00	N/A	N/A	
4805	Internal Async Modem	6.00	N/A	N/A	
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
6150-125	RT-PC System Unit, 70MB ("new processor")	925.00
6150-A25	RT-PC System, 5080 Attach	1075.00
6150-B25	RT-PC System Unit, 70MB ("new processor")	1075.00
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
3272	RT-PC 114MB EESDI Fixed-Disk Drive	425.00
3426	RT-PC 70MB Fixed-Disk Drive	425.00
3428	PC/AT Fixed-Disk and Diskette Adapter	65.00
3797	RT-PC Token-Ring Network Adapter	40.00
3988	RT-PC 70MB EESDI Fixed-Disk Drive	425.00
4710	RT-PC Lighted PF Keyboard	96.00
4735	RT-PC 40MB Fixed-Disk Drive	250.00
4758	RT-PC Floating-Point Accelerator	45.00
4762	RT-PC Multiprotocol Commo Adapter	40.00
4766	RT-PC Advanced Color Graphics Diaplay Adap	100.00
4768	RT-PC Extended Mono Graphics Diaplay Adap	100.00
6810	RT-PC Baseband Adapter for Ethernet	43.00
6815	RT-PC Advanced Floating-Point Accellerator	65.00
6941	RT-PC 70MB ESDI Fixed-Disk Drive	425.00

7658	RT-PC	Megapel Display Adapter	180.00
7860	RT-PC	5080 Attachment Adapter	150.00
7893	RT-PC	S/370 Host Interface Adapter	150.00
8710	RT-PC	Dials	120.00

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
3115	Sharing Card	1.00
3820-001	IBM Page Printer	310.00
	Monthly Use Charge \$.0126 per impression	
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
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 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

	As of Apr	11 6, 198/		
			Warranty Period (Months)	Warranty Service Type
	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 Bu	f 24	Mfr
	1537-B01	Hayes Transet 1000 Multifunction Bu	f 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
1	3363	Optical Disk Drive	12	CCR
İ	3812-001	Pageprinter	3	IOR
٠	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
	4207-001	Proprinter X24	12	CCR
	4208-001	Proprinter XL24	12	CCR
	4216-020	Personal Pageprinter	12	
	4250-002			CCR
		ElectroCompositor Printer	3	IOR
	4450	TEMPEST PC System Unit	3	mail-in
	4455	TEMPEST PC/XT System Unit	3	mail-in
	4459	TEMPEST PC/AT System Unit	3	mail-in
	4683	POS Terminal	3	CCE
	4860	PCjr	12	CCR
	4863-001	PCjr Color Display	12	CCE
	4865	External 3.5in Diskette Drive	12	CCE
	4869-001	External 5.25in Diskette Drive	12	CCE
		S/1 PC	3	CCR
	4971-001	S/1 Printer	12	CCE
	4975-02R	Serial Printer	3	IOR
	5083-002	Graphics Tablet	3	IOE
	5083-11A	Graphics Tablet	3	CCE
	5083-12A	Graphics Tablet	3	CCE
	5140	PC Portable	12	CCR
	5144-001	PC Portable Monochrome Display	12	CCE
	5145-001	PC Portable Color Display	12	CCE
	5150-X	System Unit - No keyboard	3	CCR
	5150	System Unit	3	CCR
	5151 - 001	Mono Display	3	CCE
	5152	Printer	3	CCE
	5153-001	Color Display	3	CCE
	5154-001	Enhanced Color Disp	12	CCE
	5155	Portable PC	12	CCR
	5160	System Unit XT	3	CCR
	5160-5	XT/370	3	CCR
	5161	Expansion Unit	3	CCR
	5162	PC/XT 286	12	CCR
	5167-001	Monochrome Display (TEMPEST)	3	CCE
	5169-002	Quietwriter 2 T (TEMPEST)	3	CCR
	5170	PC/AT (all models)	12	CCR
		-0/ (att modoto)	14	COL

		Warranty Period (Months)	Warranty Service Type
5171	PC/AT TEMPESTED	12	CCD
5175-001	Profes'l Graf Displ		CCR
5178-001	PC Network Translator Unit	12	CCE
5181-001		12	CCE
	Compact Printer	12	CCE
5182-001	Color Printer	12	CCE
5201	Quietwriter Printer	3	CCR
5202-001	Quietwriter III	3	CCR
5216	Wheelprinter	3	CCE
5218	Displaywriter Printer	3	IOR
5223-001	Wheelprinter E	3	CCE
5271	3270-PC	3	IOR
5272-001	3270-PC-Display	3	IOE
5273	3270-PC/AT System Unit	12	CCR
5277-001	IBM Optical Mouse	3	IOE
5278	Display Attachment Unit	3	IOE
5279-001	14in Display	3	IOE
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
6150	IBM RT-PC	12	IOR
6151	IBM RT-PC	12	IOR
6153-001	IBM Advanced Monochr Graphic Display		IOE
6154-001	IBM Advanced Color Graphics Display	12	IOE
6155-001	IBM Extended Monochr Graphic Display		IOE
6157-001	Streaming Tape Drive	12	CCE
6180	A-Size Plotter, 8-Pen	3	CCE
6184-001	D-Size Plotter, 8-Pen	3	IOR
6186	A/E Size Plotter, 8-Pen	3	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
7531-041	Industrial PC/AT	12	IOR
7532-041	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
8512	Personal System/2 Color Display	12	CCE
8513	Personal System/2 Color Display	12	CCE
8514	Personal System/2 Color Display	12	CCE
8530	Personal System/2 Model 30	12	CCR
8550	Personal System/2 Model 50	12	
8560	Personal System/2 Model 60	12	CCR
8580	Personal System/2 Model 80	12	CCR
9332	SCSI DASD	12	CCR
),JJ2	DOOT DOOD	14	IOR

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
8000	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
0213	PC Network Adapter	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

		Warranty Period (Months)	Warranty Service Type
0230	PC Network Base Expander	3	CCE
	— · · · · · · · · · · · · · · · · · · ·	3	
0231	Short Distance Kit		CCE
0232	Medium Distance Kit	3	CCE
0233	Long Distance Kit	. 3	CCE
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, Intern	al 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
1223	PC Network Baseband Adapter/A	??	system
1300	Game Control Adapter	3	CCR
1356	Four-Port Buffered RS232C Adap, RT-P		IOR
1357	Four-Port Buffered RS422A Adap, RT-P		IOR
1400	Prototype Card	3	CCE
1501	Profes'l Graf Ctrl'r	12	CCR
1502	Data Acquis/Control Adapter	12	CCR
1502	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/		
2067	Communications Adapter Cable	3	system CCE
2074	Asynch Adapter	3	CCR
2074	BSC Adapter	3	CCR
2073	SDLC Adapter	3	CCR
2500	Fixed Disk Dr	3	CCR
2300	LIVER DISK DI	, 3	COR

of A	oril 6, 1987		
	W	arranty	Warranty
		Period	Service
	(Months)	Type
2501	Fixed Disk Adapter	3	CCR
2507	3278/79 Emulation Adapter	3	CCR
2879	Enhanced Display Station Emul. Adapte		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		12	
3043	Multi-Protocol Adapter/A Pers Sys/2 Hercules Color Card		CCR
3046		24	Mfr
	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! Exteded Mem Card	24	Mfr
3053	AST RAMvantage! Exteded Mem Card	24	Mfr
3054	AST RAMvantage! Exteded Mem Card	24	Mfr
3056	AST RAMvantage! Exteded 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
3428	PC/AT Fixed Disk-Diskette Adapter	12	IOR
3780	Diskette Adapter	3	CCR

			Warranty Period (Months)	Warranty Service Type
	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		??	system
	3920	2MB Memory Expansion Option	12	
		4250 Print Adapter	3	system IOR
	3907	IEEE-488 Adapter and Cable		
	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		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-P		IOR
	4766	Advanced Color Graphics Adapter, RT-		IOR
	4768	Extended Color Graphics Adapter, RT-		IOR
	4771	Voice Communications Option, See FC		
	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 Calbe, 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
	5200	Printer Adapter	3	CCR
	5240	InfoWindow Enhanced Graphics Adapter		system
5	315/6	3278 PC Attach	3	IOR

		Warranty Period (Months)	Warranty Service Type
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
5790	Programmed Symbols Adapter	3	CCR
6000	Combination Adapter	3	CCR
6001	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 6045	Indust. AT Display Mount Parts Kit Industrial AT Disk	3	IOR
6049	FCS Input Option	12 3	IOR
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
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

		Warranty Period (Months)	Warranty Service Type
6001	D 4 4 7550		
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
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
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	· · · · · ·	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	
6583	EGA Jumper Card		CCE
6714		12	CCR
	Tallgrass Tape Backup	6	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
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
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 Fee		IOR
7893	RT-PC S/370 Host Interface Adapter	12	
8001	Multiprotocol Commo Adapt	12	IOR
0001	Transplacement commo varabe	14	CCR

•	, and the second	Warranty Period (Months)	Warranty Service Type
8186	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
8362	Quietwriter III Sheetfeed Adapter Ki	t 3	CCR
8426	Mouse, RT-PC	12	IOR
8459	Font Download Cartridge	3	CCR
8541	Fixed Disk Attach Cable	12	IOR
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 Sheetfee		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.

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.

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.

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.

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) 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.

3278 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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