IBM® Personal System/2®
& Printers
Sales Advisor

May 1989 Edition

International Business Machines Corporation

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❑ This publication has been prepared on the *IBM Personal Publishing System.*

❑ All the Part Numbers referenced in this publication are Product Part Numbers and **NOT** Service Part Numbers.

TRADEMARK ATTRIBUTIONS

The IBM Personal System/2 and Printers Sales Advisor

May 1989 Edition

The Sales Advisor has been created as a single source of information to help you qualify, recommend, price and sell IBM Personal System/2 products, in an effort to give you a concise, primary reference document for conducting your business with IBM.

In this edition we also included material and information previously offered in other publications, such as Marketing Programs and Promotions, Market Support Material Reference List, and IBM Telephone Numbers.

With this Sales Advisor you will find vital product information in one convenient source. Use this Sales Advisor and see how you will:

Optimize your valuable selling time

Enhance your image as a sales professional

Increase your sales of IBM Personal System/2 products

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IBM

IBM PS/2 Product Reference

IBM PS/2 Family at a Glance

International Business Machines Corporation

PC Bus Architecture

	IBM P/N	Dealer P/N	Processor	Memory Sys.Board (Std./Max)	Maximum w/Adapters	Hardfile (Std./Speed/Max)	Standard Diskette	Standard Graphics	Orientation	Available Slots
Model 25										
25-001	8525001	_____	8086-8MHz	512KB/640KB	N/A	None / N/A / 20MB	1x720KB	MCGA	Desktop	2[1]
25-004	8525004	_____	8086-8MHz	512KB/640KB	N/A	None / N/A / 20MB	1x720KB	MCGA	Desktop	2[1]
25-G01	8525G01	_____	8086-8MHz	512KB/640KB	N/A	None / N/A / 20MB	1x720KB	MCGA	Desktop	2[1]
25-G04	8525G04	_____	8086-8MHz	512KB/640KB	N/A	None / N/A / 20MB	1x720KB	MCGA	Desktop	2[1]
25-L01	8525L01	_____	8086-8MHz	640KB/640KB	N/A	None / N/A / 20MB	1x720KB	MCGA	Desktop	1[2]
25-L04	8525L04	_____	8086-8MHz	640KB/640KB	N/A	None / N/A / 20MB	1x720KB	MCGA	Desktop	1[2]
Model 30										
☛ 30-001	8530001	_____	8086-8MHz	640KB/640KB	2MB[3]	None / N/A / 30MB	1x720KB	MCGA	Desktop	3
30-002	8530002	_____	8086-8MHz	640KB/640KB	2MB[3]	None / N/A / N/A	2x720KB	MCGA	Desktop	3
30-021	8530021	_____	8086-8MHz	640KB/640KB	2MB[3]	20MB / 80ms / 20MB	1x720KB	MCGA	Desktop	3

Note: The IBM PS/2 Model 30-002 is withdrawn from marketing effective July 5, 1989. See Green Letter NDD89-154.

	IBM P/N	Dealer P/N	Processor	Memory Sys.Board (Std./Max)	Maximum w/Adapters	Hardfile (Std./Speed/Max)	Standard Diskette	Standard Graphics	Orientation	Available Slots
Model 30 286										
30-E01	8530E01	_____	80286-10MHz	512KB/4MB	16MB	None / N/A / 30MB	1x1.44MB	VGA	Desktop	3
30-E21	8530E21	_____	80286-10MHz	512KB/4MB	16MB	20MB / 80ms / 20MB	1x1.44MB	VGA	Desktop	3

NOTES:
  [1] 1 full-size & 1 eight-inch slot.   [2] 1 full-size slot.   [3] With expanded memory.   ☛ New product.

Micro Channel Architecture

	IBM P/N	Dealer P/N	Processor	Memory Sys.Board (Std./Max)	Maximum w/Adapters	Hardfile (Std./Speed/Max)	Standard Diskette	Standard Graphics	Orientation	Available Slots
Model 50										
50-021	8550021	_____	80286-10MHz	1MB/1MB	16MB	20MB / 80ms / 60MB[4]	1x1.44MB	VGA	Desktop	3
	Note: The IBM PS/2 Model 50-021 is withdrawn from marketing effective May 3, 1989. See Green Letter NDD89-153.									
Model 50Z										
50-031	8550031	_____	80286-10MHz	1MB/2MB	16MB	30MB / 39ms / 60MB[4]	1x1.44MB	VGA	Desktop	3
50-061	8550061	_____	80286-10MHz	1MB/2MB	16MB	60MB / 27ms / 60MB	1x1.44MB	VGA	Desktop	3
Model 55SX										
☞ 55-031	8555031	_____	80386SX-16MHz	2MB/4MB	16MB	30MB / 39ms / 30MB	1x1.44MB	VGA	Desktop	3
☞ 55-061	8555061	_____	80386SX-16MHz	2MB/4MB	16MB	60MB / 27ms / 60MB	1x1.44MB	VGA	Desktop	3
Model 60										
60-041	8560041	_____	80286-10MHz	1MB/1MB	16MB	44MB / 40ms / 88MB	1x1.44MB	VGA	Floor Standing	7
60-071	8560071	_____	80286-10MHz	1MB/1MB	16MB	70MB / 30ms / 185MB	1x1.44MB	VGA	Floor Standing	7
Model 70 386										
70-E61	8570E61	_____	80386-16MHz	1MB/6MB	16MB	60MB / 27ms / 60MB	1x1.44MB	VGA	Desktop	3
70-121	8570121	_____	80386-20MHz	2MB/6MB	16MB	120MB / 23ms / 120MB	1x1.44MB	VGA	Desktop	3
70-A21	8570A21	_____	80386-25MHz[5]	2MB/8MB	16MB	120MB / 23ms / 120MB	1x1.44MB	VGA	Desktop	3
Model 80 386										
80-041	8580041	_____	80386-16MHz	1MB/2MB	16MB	44MB / 40ms / 88MB	1x1.44MB	VGA	Floor Standing	7
80-071	8580071	_____	80386-16MHz	2MB/2MB	16MB	70MB / 30ms / 384MB	1x1.44MB	VGA	Floor Standing	7
80-111	8580111	_____	80386-20MHz	2MB/4MB	16MB	115MB / 28ms / 429MB	1x1.44MB	VGA	Floor Standing	7
80-311	8580311	_____	80386-20MHz	2MB/4MB	16MB	314MB / 23ms / 628MB	1x1.44MB	VGA	Floor Standing	7
Model P70 386										
☞ P70-061	8573061	_____	80386-20MHz	4MB/8MB	16MB	60MB / 27ms / 60MB	1x1.44MB	VGA	Portable	2[6]
☞ P70-121	8573121	_____	80386-20MHz	4MB/8MB	16MB	120MB / 23ms / 120MB	1x1.44MB	VGA	Portable	2[6]

NOTES:
[4] Replacing standard hardfile. [5] 64KB memory cache. [6] One full-length and one half-length slot. ☞ New product.

IBM PS/2 MODEL 25

Model	IBM P/N	Dealer P/N	Processor	Memory[1] Std.	Max.	Max.Memory w/Adapter(s)	Hardfile Std.	Max.[2]	Diskette Std.[4]	Max.
25-001	8525001		8086-8MHz	512KB	640KB	N/A	None[3]	20MB	1	2
25-004	8525004		8086-8MHz	512KB	640KB	N/A	None[3]	20MB	1	2
25-G01	8525G01		8086-8MHz	512KB	640KB	N/A	None[3]	20MB	1	2
25-G04	8525G04		8086-8MHz	512KB	640KB	N/A	None[3]	20MB	1	2
25-L01	8525L01		8086-8MHz	640KB	640KB	N/A	None[3]	20MB	1	2
25-L04	8525L04		8086-8MHz	640KB	640KB	N/A	None[3]	20MB	1	2

Notes: (1) System Board Memory; (2) Second Diskette & Hardfile are Mutually Exclusive; (3) Optional 20MB Fixed Disk; (4) 720KB

STANDARD FEATURES :	Models 25-001	25-004	25-G01	25-G04	25-L01	25-L04
Processor Wait States	0	0	0	0	0	0
Space Saving Keyboard	✓	✓				
Enhanced Keyboard			✓	✓	✓	✓
Integrated Monochrome 12" Analog Display	✓		✓		✓	
Integrated Color 12" Analog Display		✓		✓		✓
MCGA Graphics	✓	✓	✓	✓	✓	✓
Token-Ring Network Adapter					✓	✓
Time-of-Day Clock	no	no	no	no	no	no
Power Supply (Universal - Controlled by Switch)	90W	115W	90W	115W	90W	115W
System Unit Weight	28lbs	37lbs	28lbs	37lbs	28lbs	37lbs
Available Slots	2 [1]	2 [1]	2 [1]	2 [1]	1 [2]	1 [2]
Math Coprocessor Socket	1	1	1	1	1	1
System Bolt-Down Capability	✓	✓	✓	✓	✓	✓

Notes: (1) 1 Full Size & 1 Eight Inch Slot; (2) 1 Full Size Slot

OPTIONS NOT REQUIRING I/O SLOTS :			Models 25-001	25-004	25-G01	25-G04	25-L01	25-L04
Memory	IBM P/N	Dealer P/N						
128KB Memory Expansion Kit	78X8955		✓	✓	✓	✓		
Storage [1]								
3.5" 2nd Diskette 720KB	78X8956		✓	✓	✓	✓	✓	✓
20MB Fixed Disk Drive[2] Avg. Access Time : 80ms	78X8958		✓	✓	✓	✓	✓	✓
Others								
Math Coprocessor 8087 8MHz	1501217		✓	✓	✓	✓	✓	✓
IBM Mouse	6450350		✓	✓	✓	✓	✓	✓
Data Migration Facility	1501224		✓	✓	✓	✓	✓	✓
Carrying Case	78X8954		✓	✓	✓	✓	✓	✓

Notes: (1) Second Diskette & Hardfile are Mutually Exclusive; (2) Keylocked Bezel

Dimensions : 15" H x 12.6" W x 14.8" D

Integrated Functions :
Parallel Port
Serial Port
Pointing Device Port
Keyboard Port
Audio/Earphone Connector
Disk/Diskette Port

Bus Architecture: PC bus - 8 bit
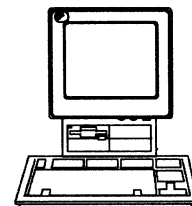
IBM PS/2 MODEL 30

Model	IBM P/N	Dealer P/N	Processor	Memory[1] Std.	Max.	Max.Memory w/Adapter(s)	Hardfile Std.	Max.	Diskette Std.[3]	Max.
☛ 30-001	8530001	_____	8086-8MHz	640KB	640KB	2MB[2]	NONE	30MB	1	2
30-002	8530002	_____	8086-8MHz	640KB	640KB	2MB[2]	NONE	N/A	2	2
30-021	8530021	_____	8086-8MHz	640KB	640KB	2MB[2]	20MB	20MB	1	1

Notes: (1) System Board Memory; (2) Expanded memory only, requires adapter card; (3) 720KB

STANDARD FEATURES :	Models 30-001	30-002	30-021
Processor Wait States	0	0	0
Enhanced Keyboard	✓	✓	✓
MCGA Graphics	✓	✓	✓
Time-of-Day Clock	yes	yes	yes
Power Supply (Automatic Voltage Sensing)	70W	70W	70W
System Unit Weight	17.5lbs	17.5lbs	18lbs
Fixed Disk Adapter Type	N/A	N/A	Direct Bus Attach
Available Slots	3	3	3
Math Coprocessor Slot	1	1	1
Electromechanical Keylock			✓
Mechanical Keylock	✓	✓	
System Bolt-Down Capability	✓	✓	✓

DISPLAYS (REQUIRED) :	Models 30-001	30-002	30-021

	IBM P/N	Dealer P/N			
8503 12" Monochrome Display	8503001	_____			
8507 19" Monochrome Display [2]	8507001	_____			
8512 14" Color Display	8512001	_____			
8512 Display Stand (OPT)	1501215	_____	Any of these Displays can be used		
8513 12" Color Display	8513001	_____			
8514 16" Color Display [2]	8514001	_____			
Display Adapter (OPT)[1]	1887744	_____	✓	✓	✓

Notes: (1) To acheive VGA capabilities, Display Adapter 1887744 must be used [uses one expansion slot];
(2) VGA Modes only with Display Adapter

OPTIONS NOT REQUIRING I/O SLOTS :	Model 30-001	30-002	30-021

	IBM P/N	Dealer P/N			
Storage[1]					
☛ 3.5" 2nd Diskette 720KB 1" High	6451027	_____	✓		
☛ 20MB Fixed Disk Drive	27F4969	_____	✓		
Ave. Access Time: 80ms					
or					
☛ 30MB Fixed Disk Drive	6451030	_____	✓		
Ave. Access Time: 39ms					

Note (1) 2nd Diskette Drive and Fixed Disk are mutually exclusive

Others					
Math Coprocessor 8087 8MHz	1501217	_____	✓	✓	✓
IBM Mouse	6450350	_____	✓	✓	✓
Data Migration Facility	1501224	_____	✓	✓	✓

Dimensions : 4" H x 16" W x 15.6" D

Integrated Functions : Parallel Port   Serial Port   Pointing Device Port
Keyboard Port   Display Port

Bus Architecture: PC bus - 8 bit

IBM PS/2 MODEL 30-286

Model	IBM P/N	Dealer P/N	Processor	Memory[1] Std.	Max.	Max.Memory w/Adapter(s)	Hardfile Std.	Max.[2]	Diskette Std.[3]	Max.
30-E01	8530E01	———	80286-10MHz	512KB	4MB	16MB	NONE [2]	30MB	1	2
30-E21	8530E21	———	80286-10MHz	512KB	4MB	16MB	20MB	20MB	1	2

Notes: (1) System Board Memory; (2) Optional Fixed Disk, 20MB or 30MB; (3) 1.44MB

STANDARD FEATURES :	Models 30-E01	30-E21
Processor Wait States	1	1
Enhanced Keyboard	✓	✓
Time-of-Day Clock	yes	yes
Power Supply (Universal - Controlled by Switch)	90W	90W
System Unit Weight	15.6lbs	19lbs
Fixed Disk Adapter Type	N/A	Direct Bus Attach
VGA Graphics	✓	✓
Available Slots	3	3
Math Coprocessor Socket	1	1
Keylock & Bolt-Down Capability	✓	✓

DISPLAYS (REQUIRED):	Models 30-E01	30-E21

	IBM P/N	Dealer P/N	
8503 12" Monochrome Display	8503001	———	
8507 19" Monochrome Display [1]	8507001	———	
8512 14" Color Display	8512001	———	
8512 Display Stand (OPT)	1501215	———	Any of these Displays can be used
8513 12" Color Display	8513001	———	
8514 16" Color Display [1]	8514001	———	

Notes: (1) VGA Modes only

OPTIONS NOT REQUIRING I/O SLOTS :	Models 30-E01	30-E21

Memory[1]

	IBM P/N	Dealer P/N	30-E01	30-E21
0.5MB Memory Module Kit	30F5348	———	✓	✓
2MB Memory Module Kit	30F5360	———	✓	✓
Number of Memory Kits that can be added on System Board			1	1

Notes: (1) Only one size kit may be installed. If a 2MB kit is installed, the 512 KB kit must be removed

Storage[1]

	IBM P/N	Dealer P/N	30-E01	30-E21
20MB Fixed Disk Drive	27F4969	———	✓	
Avg. Access Time: 80ms				
☛ 30MB Fixed Disk Drive	6451030	———	3	
Avg. Access Time: 39ms				
☛ 2nd 3.5" 1.44MB Diskette Drive	See Option Section		3	

Notes: (1) 2nd Diskette Drive and Fixed Disk are mutually exclusive.

Other

	IBM P/N	Dealer P/N	30-E01	30-E21
Math Coprocessor 80287 10MHz	6450356	———	✓	✓
IBM Mouse	6450350	———	✓	✓
Data Migration Facility	1501224	———	✓	✓

Dimensions : 4" H x 16" W x 15.6" D

Integrated Functions :
Parallel Port
Serial Port
Pointing Device Port
Keyboard Port
Display Port

Bus Architecture: PC bus - 16bit

IBM PS/2 MODEL 50 & MODEL 50Z

Model	IBM P/N	Dealer P/N	Processor	Memory[1] Std.	Max.	Max.Memory w/Adapter(s)	Hardfile Std.	Max.	Diskette Std.[4]	Max.
50-021	8550021	_____	80286-10MHz	1MB	1MB	16MB	20MB	60MB[3]	1	2
50-031	8550031	_____	80286-10MHz	1MB	2MB[2]	16MB	30MB	60MB[3]	1	2
50-061	8550061	_____	80286-10MHz	1MB	2MB[2]	16MB	60MB	60MB	1	2

Notes: (1) System Board Memory; (2) Replacing Standard 1MB Memory Kit on System Board; (3) Replacing Standard Fixed Disk; (4) 1.44MB

STANDARD FEATURES :	Models 50-021	50-031	50-061
Processor Wait States	1	0	0
Enhanced Keyboard	✓	✓	✓
Time-of-Day Clock	yes	yes	yes
Power Supply (Automatic Voltage Sensing)	97W	94W	94W
System Unit Weight	15.6lbs	19lbs	21lbs
Fixed Disk Adapter Type	Direct Bus Attach	Direct Bus Attach	Direct Bus Attach
VGA Graphics	✓	✓	✓
Available Slots	3	3	3
Math Coprocessor Socket	1	1	1
External Keylock & Security Features in BIOS/CMOS	✓	✓	✓

DISPLAYS (REQUIRED):	Models 50-021	50-031	50-061

	IBM P/N	Dealer P/N			
8503 12" Monochrome Display	8503001	_____			
8507 19" Monochrome Display [1]	8507001	_____			
8512 14" Color Display	8512001	_____			
8512 Display Stand (OPT)	1501215	_____	Any of these Displays can be used		
8513 12" Color Display	8513001	_____			
8514 16" Color Display [1]	8514001	_____			
8514 Adapter/A (OPT)	1887972	_____	✓	✓	✓
8514 Memory Expansion Kit (OPT)	1887989	_____	(Option for #1887972)		

Notes: (1) 8507/8514 Displays will achieve full capabilities with the 8514 Adapter/A & 8514 Memory Expansion Kit

OPTIONS NOT REQUIRING I/O SLOTS :	Models 50-021	50-031	50-061

Memory	IBM P/N	Dealer P/N			
2MB Memory Module Kit - 85ns[1]	6450604	_____		✓	✓

Note: (1) Replaces Standard 1MB Kit on system board

Storage					
3.5" 2nd Diskette 1.44MB	6450353	_____	✓	✓	✓
60MB Fixed Disk Drive[1] Avg. Access Time: 27ms	27F4969	_____	✓	✓	
Internal Tape Backup Unit[2]	30F5279	_____	✓	✓	✓

Note: (1) Replacing Standard Fixed Disk; (2) Mutually exclusive with 2nd Diskette

Other					
Math Coprocessor 80287 10MHz	6450356	_____	✓	✓	✓
IBM Mouse	6450350	_____	✓	✓	✓
Data Migration Facility	1501224	_____	✓	✓	✓

Dimensions : 5.5" H x 14.2" W x16.5" D

Integrated Functions :
Parallel Port
Serial Port
Pointing Device Port
Keyboard Port
Display Port

Bus Architecture : Micro Channel - 16 bits

IBM PS/2 MODEL 55 SX

		Dealer		Memory[1]		Max.Memory	Hardfile		Diskette	
Model	IBM P/N	P/N	Processor	Std.	Max.	w/Adapter(s)	Std.	Max.	Std.[4]	Max.[5]
☛ 55-031	8555031	————	80386SX-16MHz	2MB[3]	4MB[2]	16MB[6]	30MB	30MB	1	2
☛ 55-061	8555061	————	80386SX-16MHz	2MB[3]	4MB[2]	16MB[6]	60MB	60MB	1	2

Notes: *(1) System Board Memory; (2) Replacing Standard 1MB Memory Kit on System Board; (3) 128KB used for high performance BIOS; (4) 1.44MB; (5) Optional 5.25" Diskette can be added; (2) an additional 384KB is reserved for system use in systems with 16MB of memory.*

	Models	
STANDARD FEATURES :	55-031	55-061
Processor Wait States	0-2	0-2
Enhanced Keyboard	✓	✓
Time-of-Day Clock	yes	yes
Power Supply (Automatic Voltage Sensing)	90W	90W
System Unit Weight	19lbs	19lbs
Fixed Disk Adapter Type	ST 506	ESDI
VGA Graphics	✓	✓
Available Slots	3	3
Math Coprocessor Socket	1	1
External Keylock & Security Features in BIOS/CMOS	✓	✓

	Models	
DISPLAYS (REQUIRED):	55-031	55-061

	IBM P/N	Dealer P/N	
8503 12" Monochrome Display	8503001	————	
8507 19" Monochrome Display [1]	8507001	————	
8512 14" Color Display	8512001	————	
8512 Display Stand (OPT)	1501215	————	Any of these Displays can be used
8513 12" Color Display	8513001	————	
8514 16" Color Display [1]	8514001	————	
8514 Adapter/A (OPT)	1887972	————	✓ ✓
8514 Memory Expansion Kit (OPT)	1887989	————	(Option for #1887972)

Notes: *(1) 8507/8514 Displays will achieve full capabilities with the 8514 Adapter/A & 8514 Memory Expansion Kit*

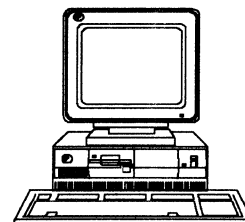|	Models	
OPTIONS NOT REQUIRING I/O SLOTS :	55-031	55-061

Memory

	IBM P/N	Dealer P/N	55-031	55-061
1MB Memory Module Kit - 85ns	6450603	————		✓
2MB Memory Module Kit - 85ns	6450604	————	✓	✓
Number of Memory Kits that can be added on System Board			0	1

Notes: *(1) The 2MB Memory Module Kit can be installed by removing the 1MB Memory Module(s) standard on System Board.*

Other

	IBM P/N	Dealer P/N	55-031	55-061
☛ Math Coprocessor 80387SX-16MHz	27F4676	————	✓	✓
IBM Mouse	6450350	————	✓	✓
Data Migration Facility	1501224	————	✓	✓

Dimensions :   4" H x 16" W x15.6" D

Integrated Functions :
Parallel Port
Serial Port
Pointing Device Port
Keyboard Port
Display Port

Bus Architecture :   Micro Channel - 16 bit

IBM PS/2 MODEL 60

Model	IBM P/N	Dealer P/N	Processor	Memory[1] Std.	Max.	Max.Memory w/Adapter(s)	Hardfile Std.	Max.	Diskette Std.[2]	Max.
60-041	8560041	———	80286-10MHz	1MB	1MB	16MB	44MB	88MB	1	2
60-071	8560071	———	80286-10MHz	1MB	1MB	16MB	70MB	185MB	1	2

Notes: (1) System Board Memory; (2) 1.44MB

	Models	
STANDARD FEATURES :	60-041	60-071
Processor Wait States	1	1
Enhanced Keyboard	✓	✓
Time-of-Day Clock	yes	yes
Power Supply (Automatic Voltage Sensing)	207W	225W
System Unit Weight	47lbs	47lbs
Fixed Disk Adapter Type (Supports 2 Hard Drives)	ST506	ESDI
VGA Graphics	✓	✓
Available Slots	7	7
Math Coprocessor Socket	1	1
External Keylock & Security Features in BIOS/CMOS	✓	✓

	Models	
DISPLAYS (REQUIRED) :	60-041	60-071

	IBM P/N	Dealer P/N		
8503 12" Monochrome Display	8503001	———		
8507 19" Monochrome Display [1]	8507001	———		
8512 14" Color Display	8512001	———		
8512 Display Stand (OPT)	1501215	———	Any of these Displays can be used	
8513 12" Color Display	8513001	———		
8514 16" Color Display [1]	8514001	———		
8514 Adapter/A (OPT)	1887972	———	✓	✓
8514 Memory Expansion Kit (OPT)	1887989	———	(Option for #1887972)	

Notes: (1) 8507/8514 Displays will achieve full capabilities with the 8514 Adapter/A & 8514 Memory Expansion Kit

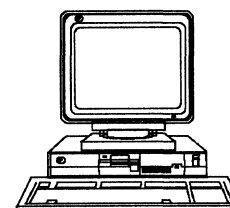|	Models	
OPTIONS NOT REQUIRING I/O SLOTS :	60-041	60-071

Storage	IBM P/N	Dealer P/N	60-041	60-071
3.5" 2nd Diskette 1.44MB	6450353	———	✓	✓
Internal Tape Backup Unit[1]	30F5279	———	✓	✓
44MB 2nd Fixed Disk Drive	6450354	———	✓	
Av. Access Time: 40ms				
70MB 2nd Fixed Disk Drive	6450355	———		✓
Av. Access Time: 30ms or				
115MB 2nd Fixed Disk Drive	6450377	———		✓
Av. Access Time: 28ms				

Note: (1) Mutually Exclusive with 2nd Diskette

Others				
Math Coproc. 80287 10MHz	6450356	———	✓	✓
IBM Mouse	6450350	———	✓	✓
Data Migration Facility	1501224	———	✓	✓

Dimensions : 23.5"H x 6.5"W x 19"D

Integrated Functions :
Parallel Port
Serial Port
Pointing Device Port
Keyboard Port
Display Port

Bus Architecture : Micro Channel - 16 bit
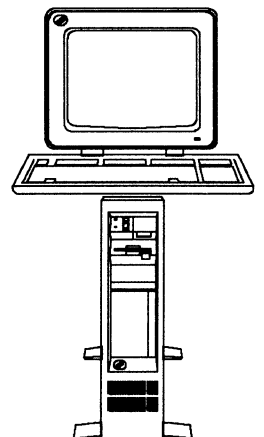
IBM PS/2 MODEL P70 386
Portable

Model	IBM P/N	Dealer P/N	Processor	Memory[1] Std.	Max.	Max.Memory w/Adapter(s)	Hardfile Std.	Max.	Diskette Std.[2]	Max.
☛ P70-061	8573061	———	80386-20MHz	4MB[3]	8MB	16MB	60MB	60MB	1	2[4]
☛ P70-121	8573121	———	80386-20MHz	4MB[3]	8MB	16MB	120MB	120MB	1	2[4]

Notes: (1) System Board Memory; (2) 1.44MB; (3) 128KB used for high performance BIOS; (4) External

	Models	
STANDARD FEATURES:	**8573-061**	**8573-121**
Processor Wait States	0-2	0-2
Fully Compatible Enhanced Keyboard (Detached)	✓	✓
Time-of-Day Clock	yes	yes
Power Supply (Automatic Voltage Sensing)	90W	90W
System Unit Weight	20.8 lbs	20.8 lbs
Fixed Disk Adapter Type	ESDI	ESDI
VGA Graphics	✓	✓
Available Slots	2	2[1]
Math Coprocessor Socket	1	1
Integrated Plasma Display (16 Gray Scale)	✓	✓
Security Features in BIOS/CMOS	✓	✓

Note: (1) 1 Full length and 1 Half length

	Models	
DISPLAYS (OPTIONAL) :	**8573-061**	**8573-121**

	IBM P/N	Dealer P/N	
8503 12" Monochrome Display	8503001	———	
8507 19" Monochrome Display [1]	8507001	———	
8512 14" Color Display	8512001	———	
8512 Display Stand (OPT)	1501215	———	Any of these Displays can be used
8513 12" Color Display	8513001	———	
8514 16" Color Display[1]	8514001	———	

Note: (1) VGA modes only

	Models	
OPTIONS NOT REQUIRING I/O SLOTS :	**8573-061**	**8573-121**

Memory	IBM P/N	Dealer P/N		
2MB Memory Module Kit-85ns	6450604	———	✓	✓
Others				
Math Coproc. 80387-20MHs	6450378	———	✓	✓
IBM Mouse	6450350	———	✓	✓
Data Migration Facility	1501224	———	✓	✓
☛ Industrial Belting Leather Carrying Case	23F3192	———	✓	✓
☛ Nylon Fisherman's Packcloth Carrying Case	23F3193	———	✓	✓
☛ External Storage Cable	23F2716	———	✓	✓

Dimensions :	12"H x 18.3"W x 5"D
Integrated Functions :	Parallel Port[1]
	Serial Port
	Pointing Device Port
	Display Port (VGA)
	External Storage Device Port
Bus Architecture :	Micro Channel - 16/32 bit

Note: (1) If Parallel Port is being used, an L-angle Industry Standard BNC Connector is required.
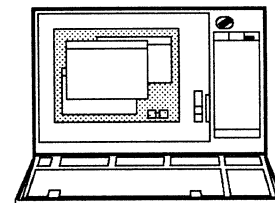
IBM PS/2 MODEL 70 386

Model	IBM P/N	Dealer P/N	Processor	Memory[1] Std.	Max.	Max.Memory w/Adapter(s)	Hardfile Std.	Max.	Diskette Std.	Max.
70-E61	8570E61	_____	80386-16MHz	1MB[3]	6MB[4]	16MB	60MB	60MB	1	2
70-121	8570121	_____	80386-20MHz	2MB[3]	6MB	16MB	120MB	120MB	1	2
70-A21	8570A21	_____	80386-25MHz[2]	2MB[3]	8MB	16MB	120MB	120MB	1	2

Notes: (1) System Board Memory; (2) 64KB Memory Cache; (3) 128KB used for high performance BIOS;
(4) Replacing Standard 1MB Memory Kit on System Board

STANDARD FEATURES:	Models 70-E61	70-121	70-A21
Processor Wait States	0-2	0-2	Memory Cache (64KB)
Enhanced Keyboard	✓	✓	✓
Time-of-Day Clock	yes	yes	yes
Power Supply (Automatic Voltage Sensing)	132W	132W	132W
System Unit Weight	21lbs	21lbs	21lbs
Fixed Disk Adapter Type	ESDI	ESDI	ESDI
VGA Graphics	✓	✓	✓
Available Slots	3	3	3
Math Coprocessor Socket	1	1	1
External Keylock & Security Features in BIOS/CMOS	✓	✓	✓

DISPLAYS (REQUIRED) :	Models 70-E61	70-121	70-A21

	IBM P/N	Dealer P/N			
8503 12" Monochrome Display	8503001	_____			
8507 19" Monochrome Display [1]	8507001	_____			
8512 14" Color Display	8512001	_____			
8512 Display Stand (OPT)	1501215	_____	Any of these Displays can be used		
8513 12" Color Display	8513001	_____			
8514 16" Color Display [1]	8514001	_____			
8514 Adapter/A (OPT)	1887972	_____	✓	✓	✓
8514 Memory Expansion Kit (OPT)	1887989	_____	(Option for #1887972)		

Notes: (1) 8507/8514 Displays will achieve full capabilities with the 8514 Adapter/A & 8514 Memory Expansion Kit

OPTIONS NOT REQUIRING I/O SLOTS :	Models 70-E61	70-121	70-A21

Memory	IBM P/N	Dealer P/N	70-E61	70-121	70-A21
2MB Memory Module Kit-85ns	6450604	_____	✓	✓	
1MB Memory Module Kit-85ns	6450603	_____	✓	✓	
2MB Memory Module Kit-80ns	6450608	_____			✓
Number of Memory Kits that can be added on System Board			2	2	3
Storage					
3.5" 2nd Diskette 1.44MB	6450353	_____	✓	✓	✓
Internal Tape Backup Unit[1]	30F5279	_____	✓	✓	✓

Note: (1) Mutually Exclusive with 2nd Diskette

Others					
Math Coproc. 80387 16MHz	6450369	_____	✓		
Math Coproc. 80387 20MHz	6450378	_____		✓	
Math Coproc. 80387 25MHz	6450607	_____			✓
IBM Mouse	6450350	_____	✓	✓	✓
Data Migration Facility	1501224	_____	✓	✓	✓

Dimensions : 5.5"H x 14.2"W x 16.5"D

Integrated Functions : Parallel Port   Serial Port
Pointing Device Port   Keyboard Port
Display Port

Bus Architecture : Micro Channel - 16/32 bit
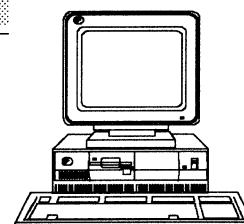
Personal System/2 Family

IBM PS/2 Model 80 386

Model	IBM P/N	Dealer P/N	Processor	Memory[1] Std.	Max.	Max.Memory w/Adapter(s)	Hardfile Std.	Max.	Diskette Std.[2]	Max.
80-041	8580041	_____	80386-16MHz	1MB[3]	2MB	16MB	44MB	88MB	1	2
80-071	8580071	_____	80386-16MHz	2MB[3]	2MB	16MB	70MB	384MB	1	2
80-111	8580111	_____	80386-20MHz	2MB[3]	4MB	16MB	115MB	429MB	1	2
80-311	8580311	_____	80386-20MHz	2MB[3]	4MB	16MB	315MB	628MB	1	2

Notes: (1) System Board Memory; (2) 1.44MB; (3) 128KB used for high performance BIOS

STANDARD FEATURES:

	Models 80-041	80-071	80-111	80-311
Processor Wait States	1	1	0-2	0-2
Enhanced Keyboard	✓	✓	✓	✓
Time-of-Day Clock	yes	yes	yes	yes
Power Supply (Automatic Voltage Sensing)	225W	225W	225W	225W
System Unit Weight	52 lbs.	52 lbs.	52 lbs.	52 lbs.
Fixed Disk Adapter Type (Supports 2 Hard Drives)	ST506	ESDI	ESDI	ESDI
VGA Graphics	✓	✓	✓	✓
Available Slots	7	7	7	7
Math Coprocessor Socket	1	1	1	1
External Keylock & Security Features in BIOS/CMOS	✓	✓	✓	✓

DISPLAYS (REQUIRED) :

	Models 80-041	80-071	80-111	80-311

	IBM P/N	Dealer P/N	
8503 12" Monochrome Display	8503001	_____	
8507 19" Monochrome Display [1]	8507001	_____	
8512 14" Color Display	8512001	_____	
8512 Display Stand (OPT)	1501215	_____	Any of these Displays can be used
8513 12" Color Display	8513001	_____	
8514 16" Color Display [1]	8514001	_____	
8514 Adapter/A (OPT)	1887972	_____	✓ ✓ ✓ ✓
8514 Memory Expansion Kit (OPT)	1887989	_____	(Option for #1887972)

Notes: (1) 8507/8514 Displays will achieve full capabilities with the 8514 Adapter/A & 8514 Memory Expansion Kit

OPTIONS NOT REQUIRING I/O SLOTS :

	Models 80-041	80-071	80-111	80-311

Memory	IBM P/N	Dealer P/N	80-041	80-071	80-111	80-311
System Board Memory Expansion Kit 1MB	6450375	_____	✓			
System Board Memory Expansion Kit 2MB	6450379	_____			✓	✓
Storage						
3.5" 2nd Diskette 1.44MB	6450353	_____	✓	✓	✓	✓
Internal Tape Backup Unit[1]	30F5279	_____	✓	✓	✓	✓
44MB 2nd Fixed Disk Drive Average Access Time : 40ms	6450354	_____	✓			
70MB 2nd Fixed Disk Drive Average Access Time : 30ms	6450355	_____		✓	✓	✓
115MB 2nd Fixed Disk Drive Average Access Time : 28ms	6450377	_____		✓	✓	✓
314MB 2nd Fixed Disk Drive Average Access Time : 23ms	6450381	_____		✓	✓	✓

Note: (1) Mutually Exclusive with 2nd Diskette

Others	IBM P/N	Dealer P/N	80-041	80-071	80-111	80-311
Math Coproc. 80387 16MHz	6450369	_____	✓	✓		
Math Coproc. 80387 20MHz	6450378	_____			✓	✓
IBM Mouse	6450350	_____	✓	✓	✓	✓
Data Migration Facility	1501224	_____	✓	✓	✓	✓
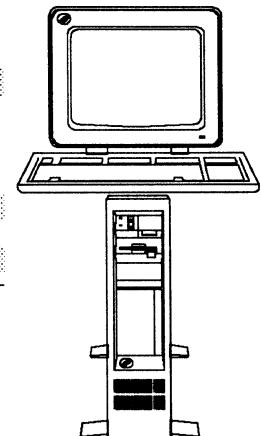
Dimensions : 23.5" H x 6.5" W x 19" D

Integrated Functions : Parallel Port   Serial Port   Pointing Device Port
Keyboard Port   Display Port

Bus Architecture : Micro Channel - 16/32 bit
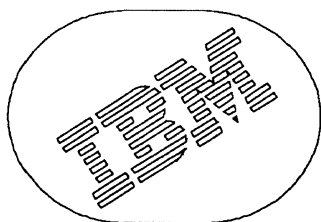
IBM PS/2 Product Reference

IBM PS/2 Displays at a Glance

IBM PERSONAL SYSTEM/2 DISPLAYS *at a glance*

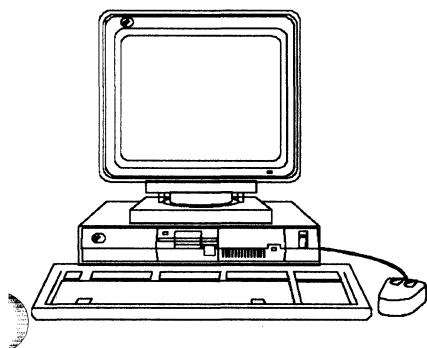| DISPLAY MODEL	IBM P/N	DEALER P/N	DISPLAY TYPE	MAXIMUM GRAPHICS	ADDRESS. TEXT	MAXIMUM COLORS	PEL SIZE	SWIVEL STAND
8503	8503001	_____	12" Mono	640 x 480	720 x 400	64 Gray	.28 mm	Standard
8507	8507001	_____	19" Mono	1024 x 768	1024 x 768	64 Gray	.35 mm	Standard
8512	8512001	_____	14" Color	640 x 480	720 x 400	256 Colors	.41 mm	Optional
8513	8513001	_____	12" Color	640 x 480	720 x 400	256 Colors	.28 mm	Standard
8514	8514001	_____	16" Color	1024 x 768	1024 x 768	256 Colors	.31 mm	Standard

ALL-POINTS-ADDRESSABLE (APA)	ALPHA/NUMERIC (TEXT)
1024 x 768 x 256[1] 1024 x 768 x 64[4] 640 x 480 x 256[3]	1024 x 768 x 256 (7x15) Columns x Rows: 146 x 51[1] 1024 x 768 x 256 (12x20) Columns x Rows: 85 x 38[1] 640 x 480 x 256 (8x14) Columns x Rows: 80 x 34[1]
640 x 480 x 16 1024 x 768 x 16[1,4]	640 x 480 x 16 (8x14) Columns x Rows: 80 x 34 1024 x 768 x 16 (7x15) Columns x Rows: 146 x 51[1] 1024 x 768 x 16 (12x20) Columns x Rows: 85 x 38[1]
640 x 480 x 16	360 x 400 x 16 (9x16) 720 x 400 x 16 (9 x 16)
320 x 200 x 16[2] 640 x 200 x 16[2] 640 x 350 x 16[2] 640 x 350 x 2 (Mono)[2]	320 x 350 x 16 (8x14) 640 x 350 x 16 (8x14) 720 x 350 x 2 (Mono 9x14)
320 x 200 x256 640 x 480 x2	640 x 400 x 16 (8x16)
320 x 200 x 4 640 x 200 x (B & W)	320 x 200 x 16 (8x8) 630 x 200 x 16 (8x8)

(Left vertical labels: 8514/A & ADDITIONAL MEMORY · 8514/A · VGA · EGA · MCGA · CGA)

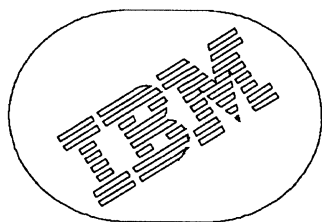| FUNCTION	DISPLAYS	8503	8512	8513	8507 / 8514
	MCGA	OPTIMAL	OPTIMAL	YES	YES
	VGA	OPTIMAL	YES	OPTIMAL	YES
	8514/A	YES	YES	YES	OPTIMAL
		8503	8512	8513	8507 / 8514
			DISPLAYS		

[1] 8514 Display Only   [2] Does Not Support 256 Colors
[3] When the IBM 8514 Memory Expansion Kit is Installed
[4] 8507 Display Only

OPTIMAL: Optimal Functional Combination
YES: Valid Combination

IBM PS/2 Product Reference

IBM PS/2 Memory Options and Configurations
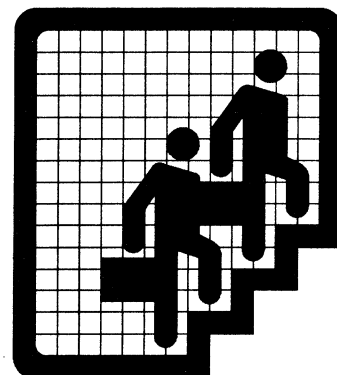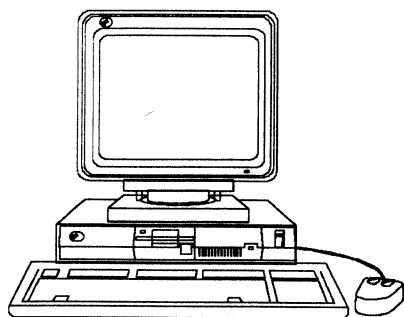
IBM PERSONAL SYSTEM/2 MEMORY *at a glance*

NON-MICROCHANNEL SYSTEMS

MEMORY ON SYSTEM BOARD	MODEL 25-L01 25-L04	MODEL 25-001 25-004 25-G01 25-G04	MODEL 30-001 30-002 30-021	MODEL 30-286-E01 30-286-E21	MODEL 30-286 MEMORY CONFIGURATION INFORMATION
Standard Memory on System Board	640KB	512KB	640KB	512KB	
Maximum Memory on System Board	640KB	640KB	640KB	4MB	
System Board Memory Expansion Kit	N/A	#78X8955	N/A	#30F5360 ◄———	Only one size kit may be installed. If a 2MB kit is installed
System Board Memory Kit Capacity	N/A	128KB	N/A	2MB or #30F5348 512KB	(#30F5360), the 512KB kit must be removed.
Number of Memory Kits that can be added on System Board	N/A	1	N/A	1	
Memory Variations Possible on Sys. Bd.	640KB	512KB 640KB	640KB	512KB ◄——— 1MB ◄——— 2MB ◄——— 4MB ◄———	(No additional kit required) (Add 1 x #30F5348) (Remove #30F5348, Add 1 x #30F5360) (Remove # 30F5348, Add 2 x #30F5360)

MEMORY OPTIONS (Cards)

Memory Expansion Card and Capacity Range	N/A	N/A	#2685193 2MB	#30F5364[2] ◄——— 0-12MB	If memory is present on the Multifunction Adapter, All memory above 512 KB on the system board must be removed.
Max # of Memory Cards per System	N/A	N/A	1	2	
Maximum System Memory	640KB	640KB	2.25MB[1]	16MB	
Memory Kit Used to upgrade Memory Cards and Memory Kit Size	N/A	N/A	N/A	#30F5360 2MB or #30F5348 0.5MB ◄———	Only one size kit may be installed on a single Multifunction Adapter (#30F5364).
Maximum # of Memory Kits that can be added to each Memory Card	N/A	N/A	N/A	6	

Memory Section Continued On Next Page   ¹ *Expanded Memory Only*   ² *The PS/2 Multifunction Adapter (#30F5364) provides an additional serial port and an additional parallel port*

IBM PERSONAL SYSTEM/2 MEMORY *at a glance*

MICROCHANNEL SYSTEMS

MEMORY ON SYSTEM BOARD	MODEL 50		MODEL 50Z		MODEL 55SX 031	MODEL 55SX 061	MODEL 60
Standard Memory on System Board	1MB		1MB		2MB	2MB	1MB
Maximum Memory on System Board	1MB		2MB[1]		4MB[1]	4MB	1MB
System Board Memory Expansion Kit	N/A		#6450604		#6450603	#6450603	N/A
System Board Memory Kit Capacity	N/A		2MB		1MB	1MB	N/A
					#6450604	#6450604	
					2MB	2MB	
Number of Memory Kits that can be added on System Board	N/A		1[1]		1[1]	1	N/A
Memory Variations Possible on Sys. Bd.	1MB		1MB		2MB	2MB	1MB
			2MB[1]		3MB[1]	3MB	
					4MB	4MB	

Note: (1)Replacing Standard Memory to get Maximum Capacity on System Board

MEMORY OPTIONS (Cards)		New Card[2]		New Card[2]		New Card[2]		New Card[2]
Memory Expansion Card and Capacity Range	#1497259 OR 0-8MB	#6540609 2-8MB	#1497259 OR 0-8MB	#6540609 2-8MB	#1497259 OR 0-8MB	#6450609 2-8MB	#1497259 OR 0-8MB	#6450609 2-8MB
Max # of Memory Cards per System	2	2	2	2	2	2	2	2
Maximum System Memory	16MB	16MB	16MB	16MB	16MB	16MB	16MB	16MB
Memory Kit Used to upgrade Memory Cards and Memory Kit Size	#30F5360 2MB	#6450603 1MB	#30F5360 2MB	#6450603 1MB	#30F5360 2MB	#6450603 1MB	#30F5360 2MB	#6450603 1MB
(Kit sizes can be mixed on same card)	#30F5348 0.5MB	#6450604 2MB	#30F5348 0.5MB	#6450604 2MB	#30F5348 0.5MB	#6450604 2MB	#30F5348 0.5MB	#6450604 2MB
Maximum # of Memory Kits that can be added to each Memory Card	4	3	4	3	4	3	4	3

Memory Section Continued On Next Page

Note: (2) The Memory Expansion Option #6450609 will operate with #1497259.
In the Model 50-021, 60-041 and 60-071, however, #6450609 must be placed in the higher numbered adapter slot.

IBM PERSONAL SYSTEM/2 MEMORY *at a glance*

MICROCHANNEL SYSTEMS

MEMORY ON SYSTEM BOARD	MODEL 70-E61	MODEL 70-121	MODEL 70-A21	MODEL 80-041	MODEL 80-071	MODEL 80-111	MODEL 80-311	MODEL 80-311	MODEL P70-061 P70-121
Standard Memory on System Board	1MB	2MB	2MB	1MB	2MB	2MB	2MB	2MB	4MB
Maximum Memory on System Board	6MB[1]	6MB	8MB	2MB	2MB	4MB	4MB	4MB	4MB
System Board Memory Expansion Kit System Board Memory Kit Capacity	#6450603 1MB #6450604 2MB	#6450603 1MB #6450604 2MB	#6450608 2MB	#6450375 1MB	N/A N/A	#6450379 2MB	#6450379 2MB	#6450379 2MB	#6450604 2MB
Number of Memory Kits that can be added on System Board	2	2	3	1	N/A	1	1	1	2
Memory Variations Possible on Sys. Bd.	1MB,2MB 3MB,4MB 5MB,6MB	2MB 3MB,4MB 5MB,6MB	2MB 4MB 6MB 8MB	1MB 2MB	2MB	2MB 4MB	2MB 4MB	2MB 4MB	4MB 6MB 8MB

Note: (1) ReplaceingStandard Memory to get Maximum Capacity on System Board

MEMORY OPTIONS (Cards)

	70-E61	70-121	70-A21	80-041	80-071	80-111	80-311	80-311	P70-061/P70-121
Memory Expansion Card and Capacity Range	#6450605 2-8MB	#6450605 2-8MB	#6450605 2-8MB	#6450605 2-8MB	#6450605 2-8MB	#6450605 2-8MB	#6450605 2-8MB	#6450605 2-8MB	#6450605 2-8MB
Max # of Memory Cards per System	2	2	2	2	2	2	2	2	1
Maximum System Memory	16MB	16MB	16MB	16MB	16MB	16MB	16MB	16MB	16MB
Memory Kit Used to upgrade Memory Cards and Memory Kit Size	#6450603 1MB #6450604 2MB	#6450603 1MB #6450604 2MB	#6450603 1MB #6450604 2MB	#6450603 1MB #6450604 2MB	#6450603 1MB #6450604 2MB	#6450603 1MB #6450604 2MB	#6450603 1MB #6450604 2MB	#6450603 1MB #6450604 2MB	#6450603 1MB #6450604 2MB
Maximum # of Memory Kits that can be added to each Memory Card	3	3	3	3	3	3	3	3	3

Memory Section Continued On Next Page

Note: (2) The Memory Expansion Option #6450609 will operate with #1497259.
In the Model 50-021, 60-041 and 60-071, however, #6450609 must be placed in the higher numbered adapter slot.

Personal Systems/2 Models 50 & 60 Extended Memory Configurator

EXTENDED MEMORY

SYSTEM	System Board Standard Memory / System Board Maximum Memory	2 MB	3 MB	4 MB	5 MB	6 MB	7 MB	8 MB
Model 50 - 021 *3 Expansion Slots*	1 MB 1 MB	1 Adapter (0-8MB) P/N 1498259 2 Memory Kits (512KB) P/N 30F5348 *1 Slot Used*	1 Adapter (2-8MB) P/N 6450609 *1 Slot Used*	1 Adapter (2-8MB) P/N 6450609 1 Memory Kit (1MB) P/N 6450603 *1 Slot Used*	1 Adapter (2-8MB) P/N 6450609 1 Memory Kit (2MB) P/N 6450604 *1 Slot Used*	1 Adapter (2-8MB) P/N 6450609 1 Memory Kit (2MB) P/N 645064 1 Memory Kit (1MB) P/N 6450603 *1 Slot Used*	1 Adapter (2-8MB) P/N 6450609 2 Memory Kits (2MB) P/N 6450604 *1 Slot Used*	1 Adapter (2-8MB) P/N 6450609 2 Memory Kits (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 *1 Slot Used*
Model 50 - 031 **&** **Model 50 - 061** *3 Expansion Slots*	1 MB 2 MB¹	1 Memory Kit¹ (2MB) P/N 6450604 *0 Slots Used*	1 Adapter (2-8MB) P/N 6450609 *1 Slot Used*	1 Adapter (2-8MB) P/N 6450609 1 Memory Kit (1MB) P/N 6450603 *1 Slot Used*	1 Adapter (2-8MB) P/N 6450609 1 Memory Kit (2MB) P/N 6450604 *1 Slot Used*	1 Adapter (2-8MB) P/N 6450609 1 Memory Kit (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 *1 Slot Used*	1 Adapter (2-8MB) P/N 6450609 2 Memory Kits (2MB) P/N 6450604 *1 Slot Used*	1 Adapter (2-8MB) P/N 6450609 2 Memory Kits (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 *1 Slot Used*
Model 60 - 041 **&** **Model 60 - 071** *7 Expansion Slots*	1 MB 1 MB	1 Adapter (0-8MB) P/N 1498259 2 Memory Kits (512KB) P/N 30F5348 *1 Slot Used*	1 Adapter (2-8MB) P/N 6450609 *1 Slot Used*	1 Adapter (2-8MB) P/N 6450609 1 Memory Kit (1MB) P/N 6450603 *1 Slot Used*	1 Adapter (2-8MB) P/N 6450609 1 Memory Kit (2MB) P/N 6450604 *1 Slot Used*	1 Adapter (2-8MB) P/N 6450609 1 Memory Kit (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 *1 Slot Used*	1 Adapter (2-8MB) P/N 6450609 2 Memory Kits (2MB) P/N 6450604 *1 Slot Used*	1 Adapter (2-8MB) P/N 6450609 2 Memory Kits (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 *1 Slot Used*

EXTENDED MEMORY

9 MB	10 MB	11 MB	12 MB	13 MB	14 MB	15 MB	16 MB	SYSTEM
1 Adapter (2-8MB) P/N 6450609 3 Memory Kits (2MB) P/N 6450604 *1 Slot Used*	2 Adapters (2-8MB) P/N 6450609 2 Memory Kits (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 *2 Slots Used*	2 Adapters (2-8MB) P/N 6450609 3 Memory Kits (2MB) P/N 6450604 *2 Slots Used*	2 Adapters (2-8MB) P/N 6450609 3 Memory Kits (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 *2 Slots Used*	2 Adapters (2-8MB) P/N 6450609 4 Memory Kits (2MB) P/N 6450604 *2 Slots Used*	2 Adapters (2-8MB) P/N 6450609 4 Memory Kits (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 *2 Slots Used*	2 Adapters (2-8MB) P/N 6450609 5 Memory Kits (2MB) P/N 6450604 *2 Slots Used*	2 Adapters (2-8MB) P/N 6450609 5 Memory Kits (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 *2 Slots Used*	**Model 50 - 021** *3 Expansion Slots*
1 Adapter (2-8MB) P/N 6450609 3 Memory Kits (2MB) P/N 6450604 *1 Slot Used*	1 Adapter¹ (2-8MB) P/N 6450609 4 Memory Kits (2MB) P/N 6450604 *1 Slot Used*	2 Adapters (2-8MB) P/N 6450609 3 Memory Kits (2MB) P/N 6450604 *2 Slots Used*	2 Adapters (2-8MB) P/N 6450609 3 Memory Kits (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 *2 Slots Used*	2 Adapters (2-8MB) P/N 6450609 4 Memory Kits (2MB) P/N 6450604 *2 Slots Used*	2 Adapters (2-8MB) P/N 6450609 4 Memory Kits (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 *2 Slots Used*	2 Adapters (2-8MB) P/N 6450609 5 Memory Kits (2MB) P/N 6450604 *2 Slots Used*	2 Adapters (2-8MB) P/N 6450609 5 Memory Kits (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 *2 Slots Used*	**Model 50 - 031** **&** **Model 50 - 061** *3 Expansion Slots*
1 Adapter (2-8MB) P/N 6450609 3 Memory Kits (2MB) P/N 6450604 *1 Slot Used*	2 Adapters (2-8MB) P/N 6450609 2 Memory Kits (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 *2 Slots Used*	2 Adapters (2-8MB) P/N 6450609 3 Memory Kits (2MB) P/N 6450604 *2 Slots Used*	2 Adapters (2-8MB) P/N 6450609 3 Memory Kits (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 *2 Slots Used*	2 Adapters (2-8MB) P/N 6450609 4 Memory Kits (2MB) P/N 6450604 *2 Slots Used*	2 Adapters (2-8MB) P/N 6450609 4 Memory Kits (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 *2 Slots Used*	2 Adapters (2-8MB) P/N 6450609 5 Memory Kits (2MB) P/N 6450604 *2 Slots Used*	2 Adapters (2-8MB) P/N 6450609 5 Memory Kits (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 *2 Slots Used*	**Model 60 - 041** **&** **Model 60 - 071** *7 Expansion Slots*

(1) - Replacing Standard 1MB Memory Kit on System Board.

NOTE: This chart is not intended to show every possible combination.

Personal Systems/2 Model 55 SX   & P70 Extended Memory Configurator

Left Table

SYSTEM	System Board Standard Memory / Maximum Memory	EXTENDED MEMORY 2 MB	3 MB	4 MB	5 MB	6 MB	7 MB	8 MB
Model 55-031 *3 Expansion Slots*	2 MB 4 MB[1]		1 Memory Kit[1] (2MB) P/N 6450604 0 Slot Used	2 Memory Kits[1] (2MB) P/N 6450604 0 Slots Used	1 Adapter (2-8MB) P/N 6450609 1 Memory Kit (1MB) P/N 6450603 1 Slot Used	1 Adapter (2-8MB) P/N 6450609 1 Memory Kit (2MB) P/N 6450604 1 Slot Used	1 Adapter (2-8MB) P/N 6450609 1 Memory Kit (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 1 Slot Used	1 Adapter (2-8MB) P/N 6450609 2 Memory Kits (2MB) P/N 6450604 1 Slot Used
Model 55-061 *3 Expansion Slots*	2 MB 4 MB		1 Memory Kit (1MB) P/N 6450603 0 Slots Used	1 Memory Kit (2MB) P/N 6450604 0 Slots Used	1 Adapter (2-8MB) P/N 6450609 1 Memory Kit (1MB) P/N 6450603 1 Slot Used	1 Adapter (2-8MB) P/N 6450609 1 Memory Kit (2MB) P/N 6450604 1 Slot Used	1 Adapter (2-8MB) P/N 6450609 1 Memory Kit (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 1 Slot Used	1 Adapter (2-8MB) P/N 6450609 2 Memory Kits (2MB) P/N 6450604 1 Slot Used
Model P70-061 & Model P70-121 *3 Expansion Slots* [2]	4 MB 8 MB						1 Memory Kit (2MB) P/N 6450604 0 Slots Used	2 Memory Kits (2MB) P/N 6450604 0 Slots Used

Right Table

EXTENDED MEMORY 9 MB	10 MB	11 MB	12 MB	13 MB	14 MB	15 MB	16 MB	SYSTEM
1 Adapter (2-8MB) P/N 6450609 2 Memory Kits (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 1 Slot Used	1 Adapter (2-8MB) P/N 6450609 3 Memory Kits (2MB) P/N 6450604 1 Slot Used	1 Adapter[1] (2-8MB) P/N 6450609 3 Memory Kits (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 1 Slot Used	1 Adapter[1] (2-8MB) P/N 6450609 5 Memory Kits (2MB) P/N 6450604 1 Slot Used	2 Adapters (2-8MB) P/N 6450609 3 Memory Kits (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 2 Slots Used	2 Adapters (2-8MB) P/N 6450609 4 Memory Kits (2MB) P/N 6450604 2 Slots Used	2 Adapters (2-8MB) P/N 6450609 4 Memory Kits (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 2 Slots Used	2 Adapters (2-8MB) P/N 6450609 5 Memory Kits (2MB) P/N 6450604 2 Slots Used	**Model 55-031** *3 Expansion Slots*
1 Adapter (2-8MB) P/N 6450609 2 Memory Kits (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 1 Slot Used	1 Adapter (2-8MB) P/N 6450609 3 Memory Kits (2MB) P/N 6450604 1 Slot Used	1 Adapter (2-8MB) P/N 6450609 3 Memory Kits (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 1 Slot Used	1 Adapter (2-8MB) P/N 6450609 4 Memory Kits (2MB) P/N 6450604 1 Slot Used	2 Adapters (2-8MB) P/N 6450609 3 Memory Kits (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 2 Slots Used	2 Adapters (2-8MB) P/N 6450609 4 Memory Kits (2MB) P/N 6450604 2 Slots Used	2 Adapters (2-8MB) P/N 6450609 4 Memory Kits (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 2 Slots Used	2 Adapters (2-8MB) P/N 6450609 5 Memory Kits (2MB) P/N 6450604 2 Slots Used	**Model 55-061** *3 Expansion Slots*
	1 Adapter (2-8MB) P/N 6450609 2 Memory Kits (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 1 Slot Used	1 Adapter (2-8MB) P/N 6450609 2 Memory Kits (2MB) P/N 6450604 1 Slot Used	1 Adapter (2-8MB) P/N 6450609 3 Memory Kits (2MB) P/N 6450604 1 Slot Used	1 Adapter (2-8MB) P/N 6450609 3 Memory Kits (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 1 Slot Used	1 Adapter (2-8MB) P/N 6450609 4 Memory Kits (2MB) P/N 6450604 1 Slot Used	1 Adapter (2-8MB) P/N 6450609 4 Memory Kits (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 1 Slot Used	1 Adapter (2-8MB) P/N 6450609 5 Memory Kits (2MB) P/N 6450604 1 Slot Used	**Model P70-061 & Model P70-121** *3 Expansion Slots* [2]

(1) - Replacing Standard 1MB Memory Kit on System Board.
(2) - One Full-Length and one Half-Length.

NOTE: This chart is not intended to show every possible combination.

Personal Systems/2 Models 70 & 80 Extended Memory Configurator

EXTENDED MEMORY (2 MB – 8 MB)

SYSTEM	System Board Standard Memory / Maximum Memory	2 MB	3 MB	4 MB	5 MB	6 MB	7 MB	8 MB
Model 70 - E61 3 Expansion Slots	1 MB 6 MB[1]	1 Memory Kit (1 MB) P/N 6450603	1 Memory Kit (2 MB) P/N 6450604 0 Slots Used	1 Memory Kit (2 MB) P/N 6450604 1 Memory Kit (1 MB) P/N 6450603 0 Slots Used	2 Memory Kits (2 MB) P/N 6450604 0 Slots Used	3 Memory Kits[1] (2MB) P/N 6450604 0 Slots Used	1 Adapter P/N 6450605 2 Memory Kits (2MB) P/N 6450604 1 Slot Used	1 Adapter P/N 6450605 2 Memory Kits (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 1 Slot Used
Model 70 - 121 3 Expansion Slots	2 MB 6 MB		1 Memory Kit (1 MB) P/N 6450603 0 Slots Used	1 Memory Kit (2 MB) P/N 6450604 0 Slots Used	1 Memory Kit (2 MB) P/N 6450604 1 Memory Kit (1 MB) P/N 6450603 0 Slots Used	2 Memory Kits (2 MB) P/N 6450604 0 Slots Used	1 Adapter P/N 6450605 1 Memory Kit (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 1 Slot Used	1 Adapter P/N 6450605 2 Memory Kits (2MB) P/N 6450604 1 Slot Used
Model 70 - A21 3 Expansion Slots	2 MB 8 MB			1 Memory Kit (2 MB) P/N 6450608 1 Memory Kit (1 MB) P/N 6450603 0 Slots Used	1 Adapter P/N 6450605 1 Memory Kit (1 MB) P/N 6450603 1 Slot Used	2 Memory Kits (2 MB) P/N 6450608 0 Slots Used	1 Adapter P/N 6450605 1 Memory Kit (2 MB) P/N 6450604 1 Memory Kit (1 MB) P/N 6450603 1 Slot Used	3 Memory Kits (2 MB) P/N 6450608 0 Slots Used
Model 80 - 041 7 Expansion Slots	1 MB 2 MB	1 Memory Kit (1 MB) P/N 6450375 0 Slots Used	1 Adapter P/N 6450605 1 Slot Used	1 Adapter P/N 6450605 1 Memory Kit (1MB) P/N 6450375 1 Slot Used	1 Adapter P/N 6450605 1 Memory Kit (1MB) P/N 6450604 1 Slot Used	1 Adapter P/N 6450605 1 Memory Kit (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450375 1 Slot Used	1 Adapter P/N 6450605 2 Memory Kits (2MB) P/N 6450604 1 Slot Used	1 Adapter P/N 6450605 2 Memory Kits (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450375 1 Slot Used
Model 80 - 071 7 Expansion Slots	2 MB 2 MB			1 Adapter P/N 6450605 1 Slot Used	1 Adapter P/N 6450605 1 Memory Kit (1MB) P/N 6450603 1 Slot Used	1 Adapter P/N 6450605 1 Memory Kit (2MB) P/N 6450604 1 Slot Used	1 Adapter P/N 6450605 1 Memory Kit (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 1 Slot Used	1 Adapter P/N 6450605 2 Memory Kits (2MB) P/N 6450604 1 Slot Used
Model 80 - 111 & **Model 80 - 311** 7 Expansion Slots	2 MB 4 MB			1 Memory Kit (2 MB) P/N 6450379 0 Slots Used	1 Adapter P/N 6450605 1 Memory Kit (1MB) P/N 6450603 1 Slot Used	1 Adapter P/N 6450605 1 Memory Kit (2MB) P/N 6450379 1 Slot Used	1 Adapter P/N 6450605 1 Memory Kit (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 1 Slot Used	1 Adapter P/N 6450605 2 Memory Kits (2MB) P/N 6450604 1 Slot Used

EXTENDED MEMORY (9 MB – 16 MB)

9 MB	10 MB	11 MB	12 MB	13 MB	14 MB	15 MB	16MB	SYSTEM
1 Adapter P/N 6450605 3 Memory Kits (2MB) P/N 6450604 1 Slot Used	1 Adapter P/N 6450605 3 Memory Kits (2MB) 1 Memory Kit (1MB) P/N 6450603 1 Slot Used	1 Adapter P/N 6450605 4 Memory Kit (2MB) P/N 6450604 1 Slot Used	1 Adapter P/N 6450605 4 Memory Kits (2MB) 1 Memory Kit (1MB) P/N 6450603 1 Slot Used	1 Adapter P/N 6450605 5 Memory Kits (2MB) P/N 6450604 1 Slot Used	1 Adapter[1] P/N 6450605 6 Memory Kits (2MB) P/N 6450604 1 Slot Used	2 Adapters P/N 6450605 5 Memory Kits (2MB) P/N 6450604 2 Slots Used	2 Adapters P/N 6450605 5 Memory Kits (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 2 Slots Used	**Model 70 - E61** 3 Expansion Slots
1 Adapter P/N 6450605 2 Memory Kits (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 1 Slot Used	1 Adapter P/N 6450605 3 Memory Kits (2MB) P/N 6450604 1 Slot Used	1 Adapter P/N 6450605 3 Memory Kits (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 1 Slot Used	1 Adapter P/N 6450605 4 Memory Kits (2MB) P/N 6450604 1 Slot Used	1 Adapter P/N 6450605 4 Memory Kits (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 1 Slot Used	1 Adapter P/N 6450605 5 Memory Kits (2MB) P/N 6450604 1 Slot Used	2 Adapters P/N 6450605 4 Memory Kits (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 2 Slots Used	2 Adapters P/N 6450605 5 Memory Kits (2MB) P/N 6450604 2 Slots Used	**Model 70 - 121** 3 Expansion Slots
1 Adapter P/N 6450605 2 Memory Kits (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 1 Slot Used	1 Adapter P/N 6450605 3 Memory Kits (2MB) P/N 6450604 1 Slot Used	1 Adapter P/N 6450605 2 Memory Kits (2MB) P/N 6450604 1 Memory Kit P/N 6450608 1 Slot Used	1 Adapter P/N 6450605 3 Memory Kits (2MB) P/N 6450604 1 Memory Kit P/N 6450608 1 Slot Used	1 Adapter P/N 6450605 2 Memory Kits P/N 6450604 2 Memory Kits P/N 6450608 1 Slot Used	1 Adapter P/N 6450605 1 Memory Kit P/N 6450604 2 Memory Kits P/N 6450608 1 Slot Used	1 Adapter P/N 6450605 1 Memory Kit P/N 6450604 3 Memory Kits P/N 6450608 1 Slot Used	1 Adapter P/N 6450605 3 Memory Kits P/N 6450608 1 Slot Used	**Model 70 - A21** 3 Expansion Slots
1 Adapter P/N 6450605 3 Memory Kits (2MB) P/N 6450604 1 Slot Used	1 Adapter P/N 6450605 3 Memory Kits (2MB) 1 Memory Kit (1MB) P/N 6450375 1 Slot Used	2 Adapters P/N 6450605 3 Memory Kits (2MB) P/N 6450604 2 Slots Used	2 Adapters P/N 6450605 3 Memory Kits (2MB) 1 Memory Kit (1MB) P/N 6450375 2 Slots Used	2 Adapters P/N 6450605 4 Memory Kits (2MB) P/N 6450604 2 Slots Used	2 Adapters P/N 6450605 4 Memory Kits (2MB) 1 Memory Kit (1MB) P/N 6450375 2 Slots Used	2 Adapters P/N 6450605 5 Memory Kits (2MB) P/N 6450604 2 Slots Used	2 Adapters P/N 6450605 5 Memory Kits (2MB) 1 Memory Kit (1MB) P/N 6450375 2 Slots Used	**Model 80 - 041** 7 Expansion Slots
1 Adapter P/N 6450605 2 Memory Kits (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 1 Slot Used	1 Adapter P/N 6450605 3 Memory Kits (2MB) P/N 6450604 1 Slot Used	2 Adapters P/N 6450605 2 Memory Kits (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 2 Slots Used	2 Adapters P/N 6450605 3 Memory Kits (2MB) P/N 6450604 2 Slots Used	2 Adapters P/N 6450605 3 Memory Kits (2MB) 1 Memory Kit (1MB) P/N 6450603 2 Slots Used	2 Adapters P/N 6450605 4 Memory Kits (2MB) P/N 6450604 2 Slots Used	2 Adapters P/N 6450605 4 Memory Kits (2MB) 1 Memory Kit (1MB) P/N 6450603 2 Slots Used	2 Adapters P/N 6450605 5 Memory Kits (2MB) P/N 6450604 2 Slots Used	**Model 80 - 071** 7 Expansion Slots
1 Adapter P/N 6450605 2 Memory Kits (2MB) P/N 6450604 1 Memory Kit (1MB) P/N 6450603 1 Slot Used	1 Adapter P/N 6450605 3 Memory Kits (2MB) P/N 6450604 1 Slot Used	1 Adapter P/N 6450605 2 Memory Kits (2MB) 1 Memory Kit (1MB) P/N 6450603 1 Memory Kit (2MB) P/N 6450379 1 Slot Used	1 Adapter P/N 6450605 3 Memory Kits (2MB) P/N 6450604 1 Slot Used	2 Adapters P/N 6450605 3 Memory Kits (2MB) 1 Memory Kit (1MB) P/N 6450603 2 Memory Kit (2MB) P/N 6450379 1 Slot Used	2 Adapters P/N 6450605 4 Memory Kits (2MB) P/N 6450604 2 Slots Used	2 Adapters P/N 6450605 5 Memory Kits (2MB) P/N 6450604 2 Slots Used	2 Adapters P/N 6450605 5 Memory Kits (2MB) P/N 6450604 2 Slots Used	**Model 80 - 111** & **Model 80 - 311** 7 Expansion Slots

1 - Replacing Standard 1MB Memory Kit on System Board.

NOTE: This chart is not intended to show every possible combination.

MEMORY CONCEPTS INTRODUCTION

The following two charts preceding the memory configurator charts are intended to explain in simple terms the difference between **EXTENDED MEMORY** and **EX-PANDED MEMORY.**

1) The 8088/8086 processors in order to address memory generate a 20-bit address. The largest number that can be formed with 20 bits is 1,048,576. That means that these processors can address only 1MB of memory.

Out of this 1MB (1024KB) addressability (Called **CONVENTIONAL MEMORY**) only 640KB can be used for the Operating System and the application.

The rest of the addressability (384KB) is for **SYSTEM MEMORY**. This is memory available only to the system, but not to the applications (E.G. Video Buffer, BIOS, etc.).

2) The 80286 processor has two modes of operations : One is called **REAL MODE**, and in this mode the processor behaves like an 8088, therefore it has the same memory addressability.

However, with the appropriate software, the processor can be directed to behave in a different way. It can go in a mode of operation called **PROTECTED MODE**. In this mode it generates a 24-bit address, and therefore it can use up to 16MB of memory. Memory above the CONVENTIONAL MEMORY (1MB) that can be addressed directly by PROTECTED MODE is called EXTENDED MEMORY.

3) The 80386 processor works in the following way:

A) With no software intervention, it works like an 8088: 1MB maximum addressability.

B) However, with the appropriate software it can go into different modes:

It can behave like an 80286 (16MB addressability) or it can go into modes that are unique to the 80386 processor. In those modes it uses 32-bit addresses, therefore it is able to use up to 4GB of real memory.

Again, memory above **CONVENTIONAL MEMORY**, that can be addressed with a processor mode is called **EXTENDED MEMORY**. DOS is able to work only in REAL MODE, therefore, regardless of the processor it is running on, it can only use 640KB of memory (1MB addressability).

Other operating systems are able to switch the modes of the 80286/80386 processors and therefore are able to use EXTENDED MEMORY: E.G. OS/2 and AIX.

The only way for DOS to use more than 640KB of memory is to use EXPANDED MEMORY.

EXPANDED MEMORY can be employed with any processor: 8088, 8086, 80286 and 80386.

The processors work in real mode only (1MB maximum addressability). However, through various techniques, more than 1MB can be addressed, but only in "pieces".

With EXPANDED MEMORY, DOS and appropriate drivers, can handle multiple programs, each one limited to 640KB in size, and only data can occupy bigger "pieces".

EXPANDED MEMORY is not the ultimate solution because:

1) No single program can be larger than 640KB

2) Advanced features of the 80286 and 80386 processors available in modes other than REAL MODE (E.G. Memory Protection, Virtual Memory, Multitasking functions) cannot be exploited.

However, EXPANDED MEMORY has been used in the industry to overcome the limitations of DOS (Real Mode only), while the OS/2 operating system utilizes the advanced features of the processors.
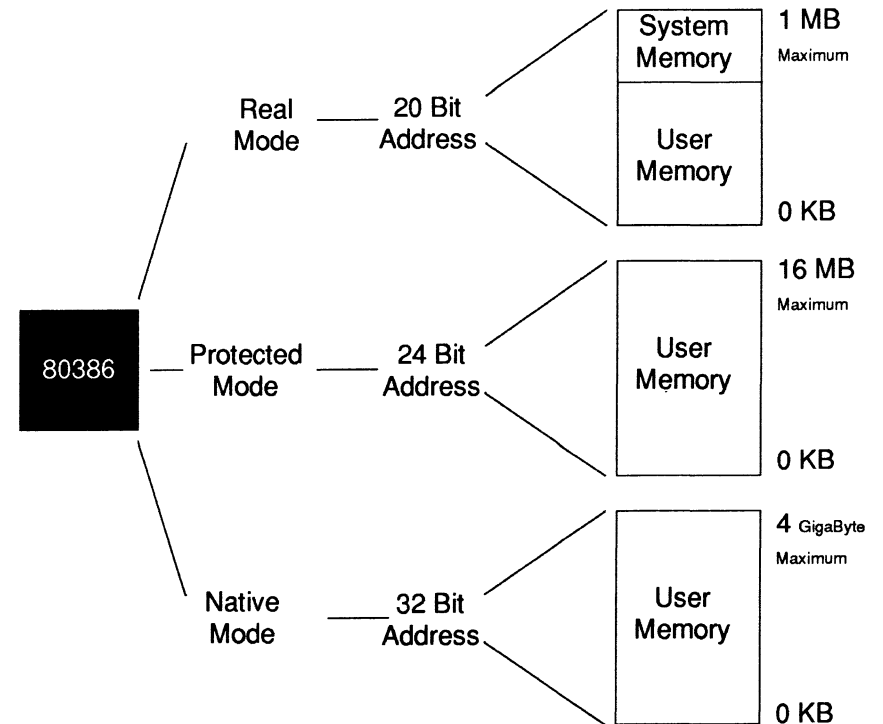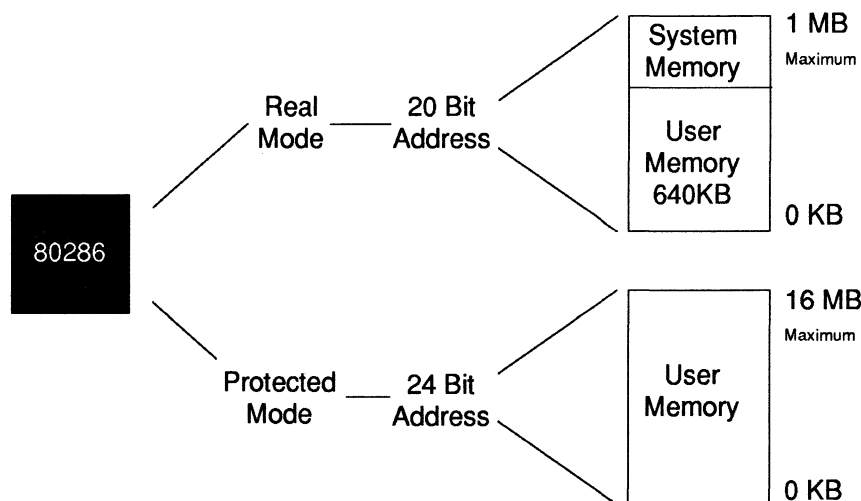
Memory Concepts

- *8088/8086 Processors have a 1 megabyte **maximum** addressability*
  User memory (application and operating system can use 640KB max.)

8088/8086 ——— 20 Bit Address

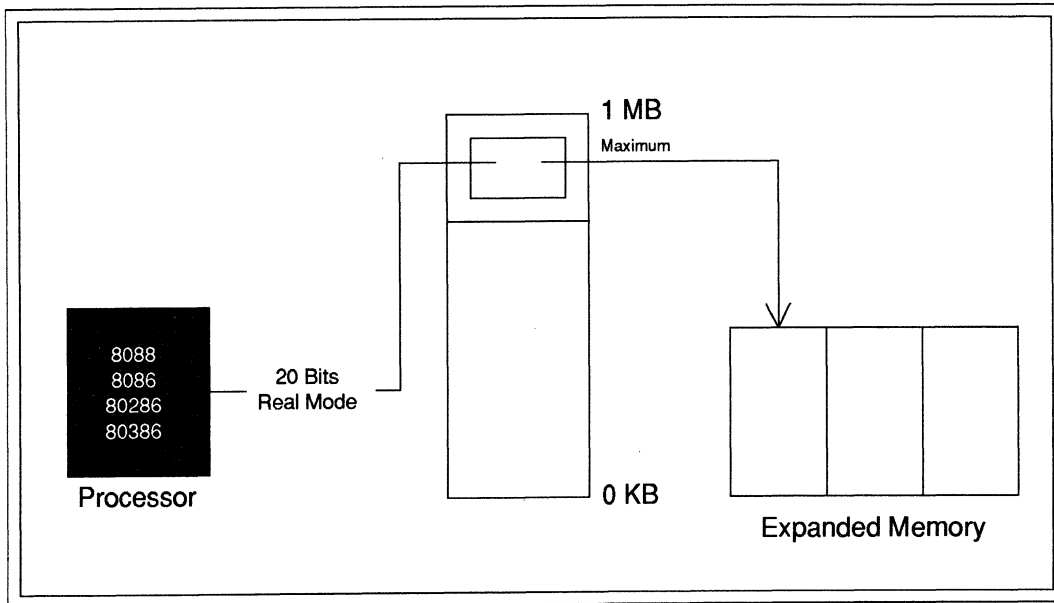| System Memory | 1 MB Maximum |

| User Memory 640KB | 0 KB |
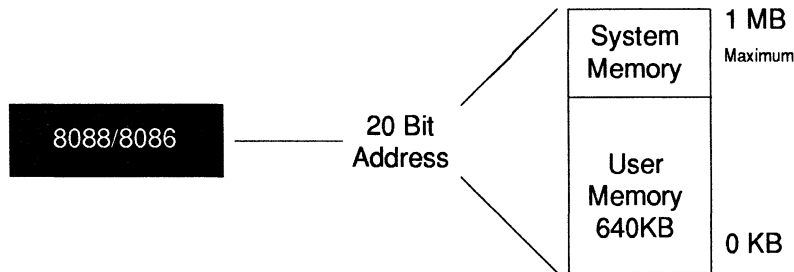
- *Memory that can be addressed with a mode other than Real Mode is called **Extended Memory**.*

- *Once again, **DOS** can use only **640KB** of main memory and acan use Extended Memory in a very limited way: as a **Virtual Disk** and/or **Disk Cache**.*

- *OS/2 can fully exploit **Extended Memory** since it is capable of switching the modes of the 80286/80386 processor.*

- *Same maximum addressability applies to 80286 and 80386 processors **when used in Real Mode** (8088 Compatability Mode).*
- *DOS can handle only Real Mode, therefore, regardless of the processor it runs on, it has the limitation of 640KB of memory that it can utilize.*

80286

Real Mode —— 20 Bit Address

| System Memory | 1 MB Maximum |

| User Memory 640KB | 0 KB |

Protected Mode —— 24 Bit Address

| User Memory | 16 MB Maximum |

| | 0 KB |

80386

Real Mode —— 20 Bit Address

| System Memory | 1 MB Maximum |

| User Memory | 0 KB |

Protected Mode —— 24 Bit Address

| User Memory | 16 MB Maximum |

| | 0 KB |

Native Mode —— 32 Bit Address

| User Memory | 4 GigaByte Maximum |

| | 0 KB |

Memory Concepts

Terminology Summary

1 MB
Maximum

8088
8086
80286
80386

Processor

20 Bits
Real Mode

0 KB

Expanded Memory

A way for DOS to use more than 640KB is to utilize
Expanded Memory. (Supported by DOS 4.0)

DOS and **appropriate drivers** can use more than 640KB in
"pages" of 640KB max. (e.g. IBM PC 3270 Workstation Program).

Each program **cannot** be larger than 640KB.

Only **data** can occupy pages larger than 640KB.

Extended
Memory

Maximum
System
Memory

System
Memory

1 MB

Window
(Address Page)

Expanded
Memory

Conventional
Memory

640KB

Adapter Card
Memory
Pages

User
Memory

0 KB
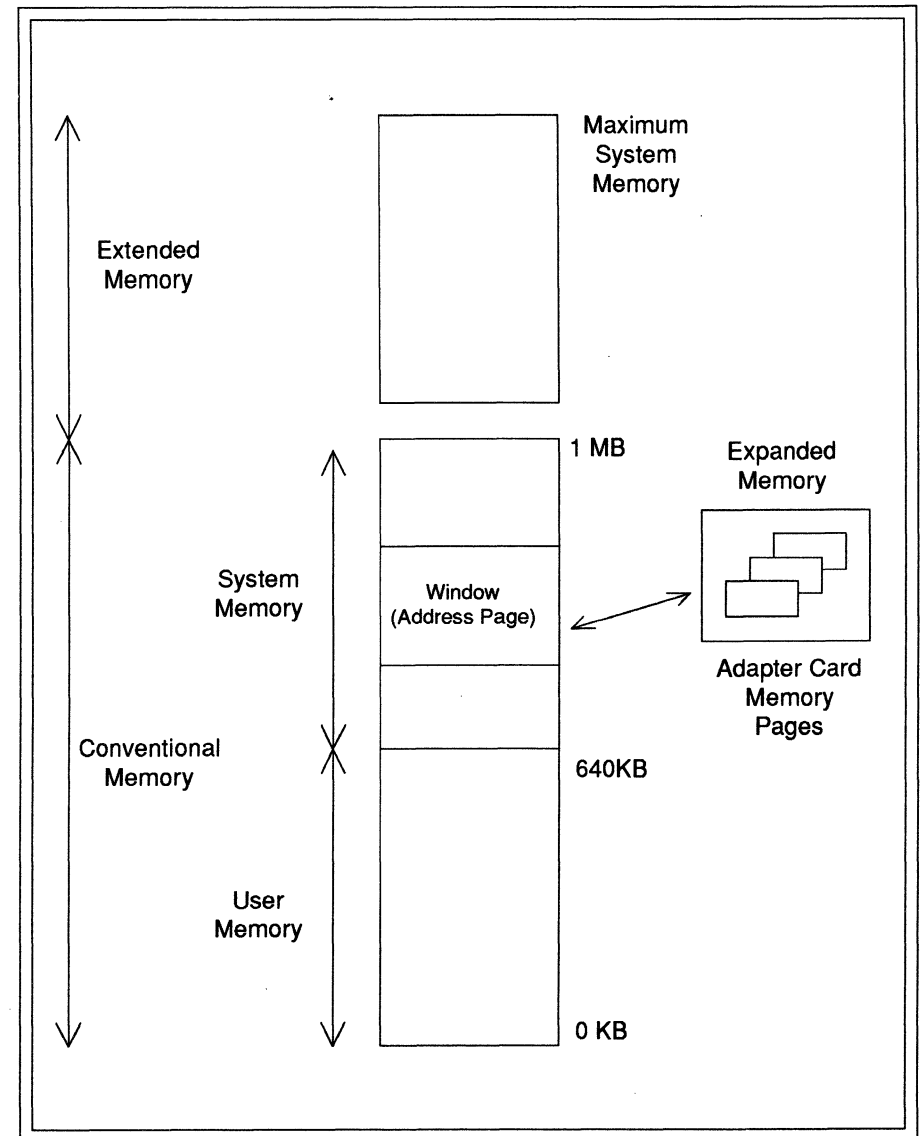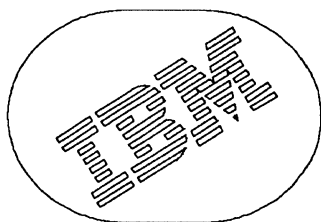
**Personal System/2
& Printer
Sales Advisor**

IBM PS/2 Product Reference

IBM PS/2 Attachment Cards and Options
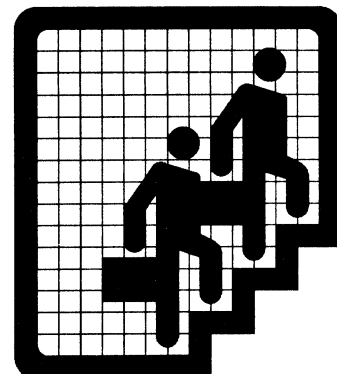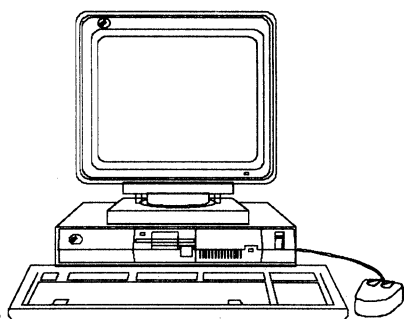
International Business Machines Corporation

Personal System/2 Model

DEVICE / FEATURE	25	30	30 286	50	50Z	55SX	60	P70	70	80
Mathematical Co-Processor	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Memory										
Up to 640KB	✓									
Up to 2MB		✓[1]								
Up to 16MB			✓	✓	✓	✓	✓	✓	✓	✓
Diskettes										
720KB 3.5-Inches	✓	✓								
1.44MB 3.5-Inches			✓	✓	✓	✓	✓	✓	✓	✓
360KB 5.25-Inches External	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1.2MB 5.25-Inches Internal							✓			✓
1.2MB 5.25-Inches External				✓	✓	✓	✓	✓	✓	✓
Tape Backup										
External 60MB	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
External 150MB	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Internal 80MB				✓	✓		✓			✓
Optical Disks										
(WORM Technology)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Fixed Disks										
20MB	✓	✓	✓	✓						
30MB		✓	✓		✓	✓				
44MB							✓			✓
60MB				✓	✓	✓		✓	✓	
70MB							✓			✓
115MB							✓			✓
120MB							✓	✓		
314MB										✓
Displays										
12-Inch Monochrome	✓[2]	✓	✓	✓	✓	✓	✓	✓	✓	✓
12-Inch Color	✓[2]	✓	✓	✓	✓	✓	✓	✓	✓	✓
14-Inch Color		✓	✓	✓	✓	✓	✓	✓	✓	✓
16-Inch Color		✓	✓	✓	✓	✓	✓	✓	✓	✓
19-Inch Monochrome			✓	✓	✓	✓	✓	✓	✓	✓
Graphics										
MCGA	✓	✓								
VGA		✓[4]	✓	✓	✓	✓	✓	✓	✓	✓
8414/A				✓	✓		✓	✓	✓	✓
Input / Output										
Mouse	✓	✓	✓	✓		✓	✓	✓	✓	✓
PC Music Feature	✓	✓	✓							
PS/2 Speech Adapter	✓	✓	✓							
Game Control Adapter	✓	✓	✓							
Data Migration Facility	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Integrated Parallel/Serial	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Parallel/Serial Adapter	✓	✓	✓							
Scanner Adapter				✓	✓	✓	✓	✓	✓	✓
Pageprinter Adapter				✓	✓		✓	✓	✓	✓
Communications										
Multiprotocol Adapter[3]				✓	✓	✓	✓	✓	✓	✓
BSC Adapter	✓	✓	✓							
SDLC Adapter	✓	✓	✓							
5250 Emulation	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3270 Emulation	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
X.25 Interface Co-Processor				✓	✓	✓	✓	✓	✓	✓
Realtime Interface Co-Processor		✓	✓	✓	✓	✓	✓	✓	✓	✓
Token Ring Adapter 4/16 Mbps	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PC Network Broadband	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PC Network Broadband Freq 2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PC Network Broadband Freq 3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PC Network Baseband	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Internal Modem			✓	✓	✓	✓	✓	✓	✓	✓
Token Ring Trace & Performance				✓	✓	✓	✓	✓	✓	✓

Notes: [1] Using Expanded Memory. [2] Integrated in System Unit. [3] HDLC / SDLC / BSC / ASYNCH. [4] Requires Display Adapter

☛ New Product

Personal System/2 Attachment Cards and Options

NON-MICRO CHANNEL PERSONAL SYSTEM/2 MODELS

PS/2 Model 25:	2 Available Slots (1 Full length & 1 Eight inch)
PS/2 Model 30:	3 Available Slots
PS/2 Model 30 286:	3 Available Slots

MEMORY

IBM PART#	IBM Model FC#	DEALER PART#	IBM PS/2 Options & Adapters	25	30	30-286	COMMENTS
2685193	3905	_____	2MB Expanded Memory Adapter (XMA)		✓		Expanded Memory Only
30F5348	3397	_____	0.5MB Memory Module Kit			✓	For Sys. Board or Multifunction Adpt
30F5360	7833	_____	2MB Memory Module Kit			✓	For Sys. Board or Multifunction Adpt
30F5364	8635	_____	PS/2 Multifunction Adapter (0-12MB)			✓	Up to 2/sys. Has serial/parallel port
78X8955	4105	_____	128KB Memory Expansion Kit	✓			Models 25-001, 004, G01 & G04 Only

For more comprehensive information on Memory Products, refer to appropriate section.

STORAGE
- Fixed Disks

IBM PART#	IBM Model FC#	DEALER PART#	IBM PS/2 Options & Adapters	25	30	30-286	COMMENTS
27F4969	4115	_____	20MB Fixed Disk Drive		✓	✓	Model 30-E01, No slot required
27F4130	4110	_____	20MB Fixed Disk with Adapter	✓			Accepted in 8-inch slot
☛ 6451030		_____	30MB Fixed Disk		✓	✓	Model 30-001/E01, No slot required
78X8958	4107	_____	20MB Fixed Disk	✓			No slot required

NOTE: The 20MB Fixed Disk Drive, the 30MB Fixed Disk Drive and the second diskette drive (5.25" or 3.5") are mutually exclusive.

- Diskettes

IBM PART#	IBM Model FC#	DEALER PART#	IBM PS/2 Options & Adapters	25	30	30-286	COMMENTS
27F4245	4114	_____	5.25" Ex. Diskette Adapter (360KB) Kit			✓	Internal Adapter Cable
4869001	4869-001	_____	5.25" External Diskette Drive (360KB)	✓	✓	✓	External Device ("B" Drive)
6450244	8750	_____	5.25" Ex. Diskette Drive Adapter (360KB)	✓	✓	✓	Accepted in 8-inch slot
☛ 6450353	3057	_____	Second 1.44MB Diskette Drive			✓	Model 30-E01, No slot required
☛ 6451026	1026	_____	Second 1.44MB Diskette Drive (1" high)			✓	Model 30-E01, No slot required
☛ 6451027	1027	_____	Second 3.5" 720KB Diskette Drive (1" high)		✓		No slot required
☛ 6451033	1033	_____	5.25" Ex. Diskette Drive Adapter Cable		✓		Internal adapter cable
☛ 6451034	1034	_____	Second 1.44MB DD Kit A (for 1" high)			✓	Required by 6451026
☛ 6451037	1037	_____	Second 1.44MB DD Kit A			✓	Required by 6450353
78X8956	4106	_____	Second 3.5" 720KB Diskette Drive	✓			No slot required

NOTE:
1) Part Number 6451026 must be used for Model 30-E01 with first diskette drive indicator light BELOW the media insertion slot.
Part Number 6450353 must be used for Model 30-E01 with first diskette drive indicator light ABOVE the media insertion slot.

2) The External 5.25" Diskette Drive and the 2nd 3.5" Diskette are Mutually Exclusive.

3) The 5.25" External Diskette Drive Adapter Cable (6451033) is required to install the 5.25" External Diskette Drive and Adapter on a Model 30-001 or on a Model 30-021 with serial numbers from 2500000 to 2999999.

- Backup Tapes & Optical Disks (WORM Technology)

IBM PART#	IBM Model FC#	DEALER PART#	IBM PS/2 Options & Adapters	25	30	30-286	COMMENTS
59X4156	4156	_____	6157 Streaming Tape Adapter	✓	✓	✓	Requires full-size slot
6157001	6157-001	_____	6157-001 Streaming Tape Drive (60MB)	✓	✓	✓	Requires P/N59X4156
6157002	6157-002	_____	6157-002 Streaming Tape Drive (150MB)	✓	✓	✓	Requires P/N59X4156
63X4131	3363-A01	_____	3363 Optical Disk Drive (A01)	✓	✓	✓	Requires full-size slot
63X4182	3363-B01	_____	3363 Optical Disk Drive (B01)	✓	✓	✓	External Device - Attaches to A01

Personal System/2 Attachment Cards and Options

NON-MICRO CHANNEL PERSONAL SYSTEM/2 MODELS

DISPLAY OPTIONS

IBM PART#	IBM Model FC#	DEALER PART#	IBM PS/2 Options & Adapters	25	30	30-286	COMMENTS
1501215	5004	_____	Color Display Stand		✓	✓	For 8512 Display Only
1887744	4050	_____	Display Adapter (VGA)		✓		

PRINTERS & SCANNERS

IBM PART#	IBM Model FC#	DEALER PART#	IBM PS/2 Options & Adapters	25	30	30-286	COMMENTS
3117010		_____	IBM 3117 Scanner Model 010	✓	✓	✓	External Device
3118010		_____	IBM 3118 Scanner Model 010	✓	✓	✓	External Device
3118020		_____	IBM 3118 Scanner Model 020	✓	✓	✓	External Device
4201002	4201-002	_____	IBM Proprinter II	✓	✓	✓	External Device
4201003	4201-003	_____	IBM Proprinter III	✓	✓	✓	External Device
4202002	4202-002	_____	IBM Proprinter II XL	✓	✓	✓	External Device
4202003	4202-003	_____	IBM Proprinter III XL	✓	✓	✓	External Device
4207002	4207-002	_____	IBM Proprinter X24E	✓	✓	✓	External Device
4208002	4208-002	_____	IBM Proprinter XL24E	✓	✓	✓	External Device
4216020	4216-020	_____	IBM Personal Pageprinter	✓	✓	✓	External Device
4216030	4216-030	_____	IBM Personal Pageprinter II	✓	✓	✓	No slot required
5201002	5201-002	_____	IBM Quietwriter Model 2	✓	✓	✓	External Device
5202001	5201-001	_____	IBM Quietwriter III	✓	✓	✓	External Device
5204001	5204-001	_____	IBM Quickwriter	✓	✓	✓	External Device
65X2016	4920	_____	High Speed Adapter	✓	✓	✓	Requires full-size slot
65X2017	4925	_____	3117 Adapter	✓	✓	✓	Requires full-size slot
75X8248	7001	_____	Personal Pageprinter Adapter		✓	✓	

Note: See Printer & Desktop Publishing Sections for more details

MISCELLANEOUS

IBM PART#	IBM Model FC#	DEALER PART#	IBM PS/2 Options & Adapters	25	30	30-286	COMMENTS
1501216	5002	_____	Speech Adapter	✓	✓	✓	Requires full-size slot
1501217	5001	_____	8087 Math Co-Processor (8MHz)	✓	✓		No slot required
1501224	5003	_____	Data Migration Facility	✓	✓	✓	No slot required
1501300	1300	_____	Game Control Adapter	✓	✓	✓	Accepted in 8-inch slot
56X2412	5240	_____	InfoWindow Enhanced Graphics Adapter		✓		
63X4882	5040	_____	General Purpose Interface Bus Cable		✓	✓	Cable
6450350	8770	_____	IBM Mouse	✓	✓	✓	No slot required
6450356	3001	_____	80287 Math Co-Processor (10MHz)			✓	No slot required
6451502	1502	_____	Data Acquisition Control Adapter		✓		
6451503	1503	_____	General Purpose Interface Bus Adapter		✓		
6451504	1504	_____	Data Acquisition Display Panel		✓		External Device
78X8954	4103	_____	Model 25 Carrying Case	✓			Case
81X8630	6011	_____	IBM PC Music Feature	✓	✓	✓	Requires full-size slot
83X9239	4239	_____	InfoWindow Attachment Kit		✓		

Note: The Speech Adapter (P/N 1501216) and the 3278/79 Emulation Adapter (P/N 8575427) are Mutually Exclusive.

☛ New Product

NON-MICRO CHANNEL PERSONAL SYSTEM/2 MODELS

COMMUNICATIONS

IBM PART#	IBM Model FC#	DEALER PART#	IBM PS/2 Options & Adapters	25	30	30-286	COMMENTS
00F5527	6241	_____	Realtime Interf.Co-Proc.Multiport(128KB)		✓	✓	
1501204	1204	_____	BSC Adapter	✓	✓	✓	Accepted in 8-inch slot
1501205	1205	_____	SDLC Adapter	✓	✓	✓	Accepted in 8-inch slot
1502067	2067	_____	Communications Adapter Cable	✓	✓	✓	Cable
30F5383	2911	_____	Enhanced 5250 Emulation Adapter Kit	✓	✓	✓	Accepted in 8-inch slot
6403635	2877	_____	Enhanced 5250 Emul Cable Assembly	✓	✓	✓	Cable
6450215	0215	_____	Serial/Parallel Adapter	✓	✓	✓	Accepted in 8-inch slot
6450217	0217	_____	Serial Adapter Cable	✓	✓	✓	Cable
6450242	0242	_____	Serial Adapter Connector	✓	✓	✓	External Device
74X7840	9610	_____	Enh.5250 Emul Space Sav.KB Add.	✓			Model 25-001/004
8575427	5050	_____	3278/79 Emulation Adapter	✓	✓	✓	Accepted in 8-inch slot
00F5529	6242	_____	Realtime Interf.Co-Proc. (512KB) Expansion				Option for 00F5527
00F5530	6245	_____	Realtime Interf.Co-Proc. (128KB) 4-Rs232 Add.				Option for 00F5527
00F5531	6246	_____	Realtime Interf.Co-Proc. Cable				Option for 00F5527
00F1989	6243	_____	Realtime Interf.Co-Proc. 4-RS422 Add.				Option for 00F5527
6164829	4829	_____	Internal 2400 bps Modem			✓	Half card size

LOCAL AREA NETWORKS
- Token Ring

IBM PART#	IBM Model FC#	DEALER PART#	IBM PS/2 Options & Adapters	25	30	30-286	COMMENTS
25F7367	7367	_____	Token Ring Network 16/4 Adapter	✓	✓	✓	Full-size slot(64KB RAM - 16/4Mbps)
25F8887	8881	_____	Token Ring Network Remote Program Load				Option for P/N 25F7367
25F9858	9858	_____	Token Ring Network Adapter II	✓	✓	✓	Accepted in 8" slot
6339098	3390	_____	Token Ring Adapter Cable				Cable
6339139	3001	_____	Rack Mounting Assembly				External device
6339140	3002	_____	Surface Mounting Brackets				External device
6339532	8218-001	_____	Token Ring Network Copper Rptr				External Device (4 Mbps)
6339535	8219-001	_____	Token Ring Network Optical Fiber Rptr				External Device (4 Mbps)
6091014	8228-001	_____	Multistation Access Unit				External device
96X5773	5773	_____	Token Ring Trace & Perf. Adptr II		✓	✓	16KB - 4Mbps
96X5810	8220-001	_____	Token Ring Network Optical Fiber Convert				External Device (4/16 Mbps)

- PC Network (Broadband)

IBM PART#	IBM Model FC#	DEALER PART#	IBM PS/2 Options & Adapters	25	30	30-286	COMMENTS
1501220	1220	_____	PC Network Broadband Adapter II	✓	✓	✓	Accepted in 8-inch slot
5178001	5178-001	_____	PC Network Translator Unit				External device
6450230	0230	_____	PC Network Base Expander Kit				External device
6450231	0231	_____	PC Network Short Distance Kit				External device
6450232	0232	_____	PC Network Medium Distance Kit				External device
6450233	0233	_____	PC Network Long Distance Kit				External device
6450234	0234	_____	PC Network 25ft Cable				External device
6450235	0235	_____	PC Network 50ft Cable				External device
6450236	0236	_____	PC Network 100ft Cable				External device
6450237	0237	_____	PC Network 200ft Cable				External device
6450238	0238	_____	120V Transformer				Required with 5178 Translator Unit
96X5645	5645	_____	PC Network Adapter II-Freq. 2	✓	✓	✓	Accepted in 8-inch slot
96X5646	5646	_____	PC Network Adapter II-Freq. 3	✓	✓	✓	Accepted in 8-inch slot

- PC Network (Baseband)

IBM PART#	IBM Model FC#	DEALER PART#	IBM PS/2 Options & Adapters	25	30	30-286	COMMENTS
1501221	1221	_____	PC Network Baseband Adapter	✓	✓	✓	Accepted in 8-inch slot
1501226	1226	_____	PC Network Baseband Ext. Rack Mount Kit				Installed 5173 in wiring closet
1501227	1227	_____	Cabling System PC Network Baseband Cable				External device
1501228	1228	_____	PC Network Baseband Gen. Purpose Cable				External device
1501229	1229	_____	PC Network Baseband Adapter Cable				External device
6134339	5173-001	_____	5173 Network Baseband Extender				External device

For more comprehensive information on Communications refer to appropriate section.

☛ New Product

MICRO CHANNEL PERSONAL SYSTEM/2 MODELS

PS/2 Model 50: 3 Available Slots
PS/2 Model 50Z: 3 Available Slots
☛ PS/2 Model 55SX: 3 Available Slots
PS/2 Model 60: 7 Available Slots
☛ PS/2 Model P70 386: 2 Available Slots (1 full-size, 1 half-size)
PS/2 Model 70 386: 3 Available Slots
PS/2 Model 80 386: 7 Avaiable Slots

MEMORY

IBM PART#	IBM Model FC#	DEALER PART#	IBM PS/2 Options & Adapters	50	50Z	55SX	60	P70	70	80	COMMENTS
1497259	7259		0-8MB Exp. Memory Adapter/A	✓	✓	✓	✓				1 slot required
30F5348	3397		0.5MB Memory Module Kit								To Upgrade Adapter #1497259
30F5360	7833		2MB Memory Module Kit								To Upgrade Adapter #1497259
6450375	3009		System Board RAM Kit (1MB)							✓	For Model 80-041 Only
6450379	8722		System Board RAM Kit (2MB)							✓	For Model 80-111/311
6450603	5212		1MB Memory Module Kit-85ns					✓	✓	✓	To Upgrade Adapters #6450605 & #6540609, 55SX, 70-E61&121 Sys Board
6450604	5213		2MB Memory Module Kit-85ns					✓	✓	✓	To Upgrade Adapters #6450605 & #6540609, 55SX, P70 70-E61 & 70-121 Sys Board
6450605	5211		2-8MB 80386 Memory Expansion Option					✓	✓	✓	1 slot required
6450608	5214		2MB Memory Module Kit-80ns						✓		For Model 70-A21 Only
☛ 6450609	8286		2-8MB 286 Memory Expansion Option	✓	✓	✓	✓				1 Slot Required

For more comprehensive information on Memory refer to appropriate section.

STORAGE
- Fixed Disks

IBM PART#	IBM Model FC#	DEALER PART#	IBM PS/2 Options & Adapters	50	50Z	55SX	60	P70	70	80	COMMENTS
6450354	3046		44MB Fixed Disk (ST506)				✓			✓	60-041 & 80-041 only
6450355	3051		70MB Fixed Disk (ESDI)				✓			✓	Except 60-041 & 80-041
6450377	9730		115MB Fixed Disk (ESDI)				✓			✓	Except 60-041 & 80-041
6450381	6023		314MB Fixed Disk (ESDI)							✓	Except 80-041
6450606	6666		60MB Fixed Disk (ESDI)	✓	✓						Replacing standard hardfile

- Diskettes

IBM PART#	IBM Model FC#	DEALER PART#	IBM PS/2 Options & Adapters	50	50Z	55SX	60	P70	70	80	COMMENTS
☛ 23F2716	2716		External storeage device cable					✓			Cable
4869001	4869-001		5.25" External Diskette Drive (360KB)	✓	✓	✓	✓	✓	✓	✓	Attach to #6450245 or #6451007 no adapter required for P70
4869002	4869-002		5.25" External Diskette Drive (1.2MB)	✓	✓	✓	✓	✓	✓	✓	Attach to #6451007
6450245	8760		5.25" Ex. Disk Drive Adapter/A (360KB)	✓	✓		✓	✓	✓	✓	1 slot required
6450353	3057		1.44MB 2nd Disk Drive (3.5-inch)	✓	✓	✓			✓	✓	No slot required
6451006	---		5.25" Internal Diskette Drive (1.2MB)				✓		✓	✓	Attach to #6451007
6451007	---		5.25" Disk Adapter/A (360KB/1.2MB)	✓	✓	✓	✓	✓	✓	✓	1 slot required

(Can Attach 1 External & 1 Internal, it does not become drive "B")

Note: The External 5.25" Diskette Drive Adapter/A (360KB-P/N 6450245) and the second 3.5" Diskette Drive are mutually exclusive

- Backup Tape

IBM PART#	IBM Model FC#	DEALER PART#	IBM PS/2 Options & Adapters	50	50Z	55SX	60	P70	70	80	COMMENTS
30F5279	5279		PS/2 80MB Internal Tape Backup Unit	✓	✓		✓		✓	✓	No slot required
30F5280	5280		PS/2 Int. Tape Backup Unit Conv. Kit	✓	✓		✓		✓	✓	Includes hardware & software
6157001	6157-001		6157-001 Str. Tape Drive-60MB	✓	✓	✓	✓	✓	✓	✓	Attaches to #92X1458
6157002	6157-002		6157-002 Str. Tape Drive-150MB	✓	✓	✓	✓	✓	✓	✓	Attaches to #92X1458
92X1458	4160		6157 Streaming Tape Adapter/A	✓	✓	✓	✓	✓	✓	✓	Requires 1 slot

☛ New Product

MICRO CHANNEL PERSONAL SYSTEM/2 MODELS

STORAGE (Continued)
- Optical Disk (WORM Technology)

IBM PART#	IBM Model FC#	DEALER PART#	IBM PS/2 Options & Adapters	50	50Z	55SX	60	P70	70	80	COMMENTS
63X4166	8700	_____	3363 Internal Optical Disk Drive				✓			✓	1 slot required
63X4182	3363-B01	_____	3363 Optical Disk Drive (B01)	✓	✓	✓	✓	✓	✓	✓	Attach to A11 or Internal
68X7946	3363-A11	_____	3363 Optical Disk Drive (A11)	✓	✓	✓	✓	✓	✓	✓	1 slot required

Note: 1) The 3363 Internal Optical Disk Drive (P/N 63X4166) is mutually exclusive with the second fixed disk or the Internal 1.2MB diskette drive

2) Three x (A11+B01) Optical Drives can be installed or Two x (A11+B01) and an Internal Optical Disk drive (P/N 63X4166) plus one B01.

DISPLAY OPTIONS

IBM PART#	IBM Model FC#	DEALER PART#	IBM PS/2 Options & Adapters	50	50Z	55SX	60	P70	70	80	COMMENTS
1501215	5004	_____	Color Display Stand								For 8512 Display Only
1887972	4054	_____	Display Adapter 8514/A	✓	✓	✓	✓		✓	✓	1 slot required
1887989	4081	_____	8514 Memory Expansion Kit								To upgrade P/N 1887989

PRINTERS & SCANNERS

IBM PART#	IBM Model FC#	DEALER PART#	IBM PS/2 Options & Adapters	50	50Z	55SX	60	P70	70	80	COMMENTS
3117010	3117-010	_____	IBM 3117 Scanner Model 010	✓	✓	✓	✓	✓	✓	✓	External Device
3118010	3118-010	_____	IBM 3118 Scanner Model 010	✓	✓	✓	✓	✓	✓	✓	External Device
3118020	3118-020	_____	IBM 3118 Scanner Model 020	✓	✓	✓	✓	✓	✓	✓	External Device
94X2410	3119-010	_____	IBM 3119 Page Scanner	✓	✓	✓	✓	✓	✓	✓	External Device
4201002	4201-002	_____	IBM Proprinter II	✓	✓	✓	✓	✓	✓	✓	External Device
4201003	4201-003	_____	IBM Proprinter III	✓	✓	✓	✓	✓	✓	✓	External Device
4202002	4202-002	_____	IBM Proprinter II XL	✓	✓	✓	✓	✓	✓	✓	External Device
4202003	4202-003	_____	IBM Proprinter III XL	✓	✓	✓	✓	✓	✓	✓	External Device
4207002	4207-002	_____	IBM Proprinter X24E	✓	✓	✓	✓	✓	✓	✓	External Device
4208002	4208-002	_____	IBM Proprinter XL24E	✓	✓	✓	✓	✓	✓	✓	External Device
4216020	4216-020	_____	IBM Personal Pageprinter	✓	✓	✓	✓	✓	✓	✓	External Device
4216030	4216-030	_____	IBM Personal Pageprinter II	✓	✓	✓	✓	✓	✓	✓	No slot required
5201002	5201-002	_____	IBM Quietwriter Printer Model 2	✓	✓	✓	✓	✓	✓	✓	External Device
5202001	5202-001	_____	IBM Quietwriter III	✓	✓	✓	✓	✓	✓	✓	External Device
5204001	5204-001	_____	IBM Quickwriter	✓	✓	✓	✓	✓	✓	✓	External Device
65X1905	1028	_____	High Speed Adapter/A	✓	✓	✓	✓	✓	✓	✓	1 slot required
65X1925	1029	_____	3117 Adapter/A	✓	✓	✓	✓	✓	✓	✓	1 slot required
75X8267	7002	_____	Personal PagePrinter Adapter/A	✓	✓	✓	✓	✓	✓	✓	1 slot required
94X2415	5442	_____	3119 Adapter/A	✓	✓	✓	✓	✓	✓	✓	1 slot required

Note: For more comprehensive information on Printers, Scanners and Desktop Publishing systems refer to appropriate section.

MISCELLANEOUS

IBM PART#	IBM Model FC#	DEALER PART#	IBM PS/2 Options & Adapters	50	50Z	55SX	60	P70	70	80	COMMENTS
1501224	5003	_____	Data Migration Facility	✓	✓	✓	✓	✓	✓	✓	No slot required
6450350	8770	_____	IBM Mouse	✓	✓	✓	✓	✓	✓	✓	No slot required
6450356	3001	_____	80287 Math Co-Processor (10MHz)	✓	✓		✓				No slot required
☞ 27F4676	4676	_____	80387SX Math Co-Processor (16MHz)			✓					No slot required
6450369	3002	_____	80387 Math Co-Processor (16MHz)						✓	✓	70-E61, 80-041, 80-071
6450378	8720	_____	80387 Math Co-Processor (20MHz)					✓	✓	✓	P70, 70-121, 80-11, 80-311
6450607	6320	_____	80387 Math Co-Processor (25MHz)						✓		70-A21

Personal System/2 Attachment Cards and Options

MICRO CHANNEL PERSONAL SYSTEM/2 MODELS

COMMUNICATIONS

IBM PART#	IBM Model FC#	DEALER PART#	IBM PS/2 Options & Adapters	50	50Z	55SX	60	P70	70	80	COMMENTS
00F5531	6246	_____	RTI Co-proc. Interface Cable								Cable for 09F1897
09F1897	6263	_____	RTI Co-processor Multiport/2	✓	✓	✓	✓	✓	✓	✓	1 slot required
09F1952	6265	_____	RTI Co-proc. 8 Port RS232 Int.Board								External options for 6263 & 6247
09F1955	6267	_____	RTI Co-proc. 4 Port RS232 Int.Board								External options for 6263 & 6247
09F1958	6266	_____	RTI Co-proc. RS232/RS422 Int.Board								External options for 6263 & 6247
1502067	2067	_____	Communications Adapter Cable								Cable
☛ 15F8852	6326	_____	RTI Co-Proc. 8 Port RS-422								Option for 6263 & 6247
☛ 15F8861	6327	_____	RTI Co-Proc. 6 Port RS-232								Option for 6263 & 6247
☛ 15F8866	6328	_____	Synchronous Interface Cable								Cable for 6327
16F1820	6247	_____	RTI Co-proc. Multiport/2 with 1MB	✓	✓	✓	✓	✓	✓	✓	1 slot required
16F1858	6401	_____	X.25 Interface Co-Processor/2	✓	✓	✓	✓	✓	✓	✓	1 slot required
16F1865	6321	_____	Cable Option X.21								Cable
16F1869	6322	_____	Cable Option V24								Cable
16F1871	6323	_____	Cable Option V35								Cable
25F8448	2000	_____	3270 Connection (Prev. P/N 25F8060)	✓	✓	✓	✓	✓	✓	✓	Accepted in half length slot (P70)
6450217	0217	_____	Serial Adapter Cable								Cable
6450242	0242	_____	Serial Adapter Connector								Connector
6451013	1014	_____	Dual Async Adapter/A	✓	✓	✓	✓	✓	✓	✓	1 slot required
6450349	0349	_____	300/1200 Internal Modem/A	✓	✓	✓	✓	✓	✓	✓	1 slot required
6451003	3043	_____	Multi-protocol Adapter/A	✓	✓	✓	✓	✓	✓	✓	1 slot required
69X6279	6279	_____	Sys36/38 Wkstn. Emul. Adapter/A	✓	✓	✓	✓		✓	✓	1 slot required
69X6293	6293	_____	Sys36/38 Wkstn. Emul. Attch Cable								Cable
☛ 94X1755	1755	_____	300/1200/2400bps Int Modem/A					✓			Accepted in half length slot (P70)

Note: "RTI" denotes "Realtime Interface"
Realtime Interface Co-processor on Model 55SX must be installed in slot 2.

LOCAL AREA NETWORKS
- Token Ring

IBM PART#	IBM Model FC#	DEALER PART#	IBM PS/2 Options & Adapters	50	50Z	55SX	60	P70	70	80	COMMENTS
16F1133	1133	_____	Token-Ring 16/4 Adapter/A	✓	✓	✓	✓	✓	✓	✓	4/16 Mbps-64KB RAM
25F8887	8881	_____	TR 16/4 Adapt./A Rem. Prog. Load								For P/N 16F1133
6091014	8228-001	_____	Multistation Access Unit								External Device
6339098	3390	_____	Token Ring Adapter Cable								Cable
6339139	3001	_____	Rack Mounting Assembly								External Device
6339140	3002	_____	Surface Mounting Brackets								External Device
6339532	8218-001	_____	Token Ring Network Copper Rptr								External Device - 4Mbps
6339535	8219-001	_____	Token Ring Network Opt. Fiber Rptr								External Device - 4Mbps
69X8138	4790	_____	Token-Ring Adapter/A	✓	✓	✓	✓	✓	✓	✓	4Mbps-16KB RAM
83X8887	8881	_____	TR Adapter/A-Remote Program Load								For 69X8138
96X5774	5774	_____	Token Ring Trace & Perf. Adptr/A	✓	✓	✓	✓	✓	✓	✓	4Mbps-16KB RAM
96X5810	8220-001	_____	TR Network Optical Fiber Converter								External device - 4/16 Mbps

- PC Network (Broadband)

IBM PART#	IBM Model FC#	DEALER PART#	IBM PS/2 Options & Adapters	50	50Z	55SX	60	P70	70	80	COMMENTS
1501222	1222	_____	PC Net. Broadband Adapter II/A	✓	✓	✓	✓	✓	✓	✓	1 slot required
5178001	5178-001	_____	PC Network Translator Unit								External Device
6450230	0230	_____	PC Network Base Expander Kit								External Device
6450231	0231	_____	PC Network Short Distance Kit								Cable
6450232	0232	_____	PC Network Medium Distance Kit								Cable
6450233	0233	_____	PC Network Long Distance Kit								Cable
6450234	0234	_____	PC Network 25ft Cable								Cable
6450235	0235	_____	PC Network 50ft Cable								Cable
6450236	0236	_____	PC Network 100ft Cable								Cable
6450237	0237	_____	PC Network 200ft Cable								Cable
6450238	0238	_____	120V Transformer								Ext. Dev-Required with 5178
96X5647	5647	_____	PC Network Adapter II/A-Freq. 2	✓	✓	✓	✓	✓	✓	✓	1 slot required
96X5648	5648	_____	PC Network Adapter II/A-Freq. 3	✓	✓	✓	✓	✓	✓	✓	1 slot required

☛ New Product

Personal System/2 Attachment Cards and Options

MICRO CHANNEL PERSONAL SYSTEM/2 MODELS

- PC Network (Baseband)

IBM PART#	IBM Model FC#	DEALER PART#	IBM PS/2 Options & Adapters	50	50Z	55SX	60	P70	70	80	COMMENTS
1501223	1223	_____	PC Network Baseband Adapter/A	✓	✓	✓	✓	✓	✓	✓	1 slot required
1501226	1226	_____	PC Net Baseband Ext.Rack Mnt Kit								To install 5173 in wiring closet
1501227	1227	_____	PC Net Baseband Cable								Cable
1501228	1228	_____	PC Net Baseband Gen. Purp. Cable								Cable
1501229	1229	_____	PC Net Baseband Adapter Cable								Cable
6134339	5173	_____	5173 Network Baseband Extender								External Device

Note: For more comprehensive information on Communications refer to appropriate section.

OEM Hardware Products for IBM Personal System/2 Computers
with the Micro Channel Bus

Many OEM Hardware Products for IBM Personal System/2 Computers with the Micro Channel Bus are commercially marketed by other developers. In order to obtain information on these products you can.

1. Use CSS (Customer Support System)

2. Contact your IBM Representative and order the Catalog of OEM Hardware Products for IBM Personal System/2 Computers with the Micro Channel BUS G360-2824-01

   The material provided through the above mentioned means is based on information provided to IBM by authorized representatives of each of the development organizations referenced. Each developer has stated that is marketing or intends to market the listed product(s) that directly attach to the Micro Channel bus of an IBM PS/2 Computer.

   There may be other developers whose products are not included. To request product enrollment in future versions of the catalog, please submit a written request to :

<div align="center">

Ms. Mildred N. Sanderson
IBM Corporation - 1709
P.O. Box 1328
Boca Raton, FL 33429-1328

</div>

   IBM has not evaluated the listed products and makes no comments or judgements about their functions, quality, performance, etc. Users should contact the developer directly to verify product function, prerequisites, price, availability, and suitability for the user's purposes.

   IBM DOES NOT RECOMMEND OR ENDORSE THE NON-IBM PRODUCTS. WITH RESPECT TO THE LISTED PRODUCTS OR THE COMPLETENESS OR ACCURACY OF THIS CATALOG, IBM MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. ANY AGREEMENTS OR WARRANTIES TAKE PLACE DIRECTLY BETWEEN THE DEVELOPER AND PROSPECTIVE USERS.

☞ New Product
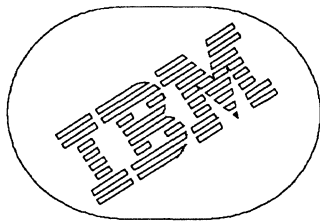
Personal System/2 & Printer Sales Advisor

IBM PS/2 Product Reference

IBM PS/2 Communications

International Business Machines Corporation
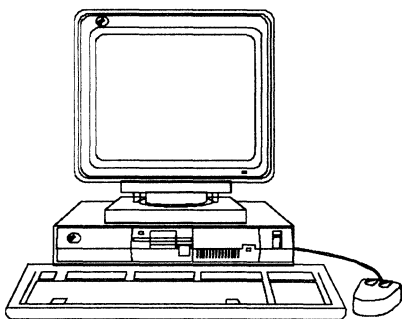
Note: This section is intended to provide an easy and concise summary of the major communications capabilities and functions available on IBM Personal System/2 with IBM communication software.

We strongly recommend every implementation to be verified by your technical department.

IBM Personal System/2 Communications
At a Glance

Subjects Covered:

IBM PS/2 Connectivity Summary

IBM Local Area Network Solutions

- IBM PC Network Baseband

- IBM PC Network Broadband

- IBM Token-Ring Network

Asynchronous Gateways

5250 Emulation

AS/400, S/36 Token Ring Connectivity

3270 to AS/400 - Token-Ring or SDLC

PS/2 to S/370

PS/2 Gateway or Standalone

Inter-LAN Connections

Remote Access to Local Area Networks

IBM PS/2 CONNECTIVITY SUMMARY

Connectivity /Function	DOS	OS/2
IBM Local Area Networks : (Token Ring, PC Network, PC Network Baseband)		
NETBIOS	LAN Support Program V1.1	OS/2 Extended Edition V1.1
APPC	LAN Support Program V1.1 with APPC/PC	OS/2 Extended Edition V1.1
802.2	LAN Support Program V1.1	OS/2 Extended Edition V1.1
Server Functions	LAN Support Program V1.1 with PC LAN Program V1.3	OS/2 Extended Edition V1.1 with OS/2 Server Program V1.0
Workstation Functions	LAN Support Program V1.1 with PC LAN Program V1.3	OS/2 Extended Edition V1.1
Gateway Functions: (SDLC,DFT,Token-Ring)	LAN Support Program V1.1 with PC 3270 Emulation Program V3.0	Planned Enhancement
(Asynchronous)	Async.Connection Server or Async. Communications Server or Remote NETBIOS Access Facility	
LAN Bridging:	PC Network Bridge Program or Token Ring Bridge Program V1.1 or Token Ring Bridge Program V2.0 or Token Ring Bridge Program V2.1 or Token Ring/PC Network Interconnect Pgm	
Performance Analysis	Token Ring Trace & Performance Pgm PC Network Analysis Program	
Remote LAN Access	LAN Support Program V1.1 with Remote NETBIOS Access Facility	
Network Management	LAN Manager V1.0 Netview/PC V1.1 3270 Emulation LAN Manager V1.0	OS/2 Extended Edition V1.1 OS/2 LAN Server Program V1.0 LAN Manager V2.0 LAN Manager Entry V1.0 Netview/PC V1.2 for OS/2
Remote IPL (Token Ring Only)	LAN Support Program V1.1 with PC LAN Program V1.3	OS/2 Extended Edition V1.1 with OS/2 Server Program V1.0
3270 Emulation :		
CUT	PC 3270 Emulation Entry V1.2	
DFT	3270 Workstation Program V1.1 or PC 3270 Emulation V3.0	OS/2 Extended Edition V1.1
SDLC	PC 3270 Emulation Program V3.0	OS/2 Extended Edition V1.1
Token-Ring Direct Attach.	PC 3270 Emulation Program V3.0 or 3270 Workstation Program V1.1	OS/2 Extended Edition V1.1
HLLAPI	3270 HLLAPI V3.1	OS/2 Extended Edition V1.1
5250 Emulation :		Planned Enhancement
Local	Enhanced 5250 Emulation Ppm. V2.12 S36/38 Workstation Emulation Pgm	
Remote	Remote 5250 Emulation Program V2.0	
Asynchronous : Emulators:		
3101	3101 Emulation Program	OS/2 Extended Edition V1.1
DEC VT 100		OS/2 Extended Edition V1.1
3270	Fterm	
Multiple Concurrent Connections		OS/2 Extended Edition V1.1

IBM Local Area Network Solutions

SNA
Host/Area Access

Asynchronous
Host and
Workstation

Host

9370

AS/400

M

CBX II

N
E
T
W
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R
K

M
A
N
A
G
E
M
E
N
T

S/36

Asynchronus

LAN

User

Printer

Disk

User

Peer To
Peer

Shared
Resources

IBM Local Area Network Selection Guidelines

	Token-Ring	PC Network Broadband	PC Network Baseband
# of Nodes	2 to Unlimited	2 to 3000	2 to 80
Distance	Several Miles	5 km(radius)	800 feet
Types of Devices	PC, PS/2 System/36, AS/400 9370 3720, 3725, 3745 3174	PC, PS/2 TV Other	PC, PS/2
Date Rate	4 Mbps or 16Mps[1]	2 Mbps	2 Mbps
Protocol	Token-Passing	CSMA/CD	CSMA/CD
Application Interface	NETBIOS IEEE 802.2 APPC/PC	NETBIOS IEEE 802.2 APPC/PC	NETBIOS IEEE 802.2 APPC/PC
Network Mgmt.	Full	Comprehensive	Limited
Multiple Services	Data	Data Video Voice	Data
Wiring	IBM Cabling System Twisted Pair Optical Fiber	Coax	IBM Cabling System Twisted Pair
Growth (Number of Workstations)	260 Per Ring Unlimited With Bridges	72 (IBM) 1000 (Custom) 1 Frequency 3000 (Custom) 3 Frequencies	8 Per Daisy Chain; 80 With Extender
Environment	Establishment-Wide Solution	Departmental Industrial	Departmental Open-Area Classroom Small Business Low Cost Entry Level

Notes: (1) All stations in the ring must function at the same speed. Different data rate rings can be bridged together.

IBM PC Network

Baseband

PS/2 25, 30, 30286
PC Network
Baseband Adapter
Part # 1501221

PS/2 50 and Higher
PC Network
Baseband Adapter/A
Part # 1501223

PC Network
Baseband Extender
(for 9-80 Nodes)
Part # 6134339
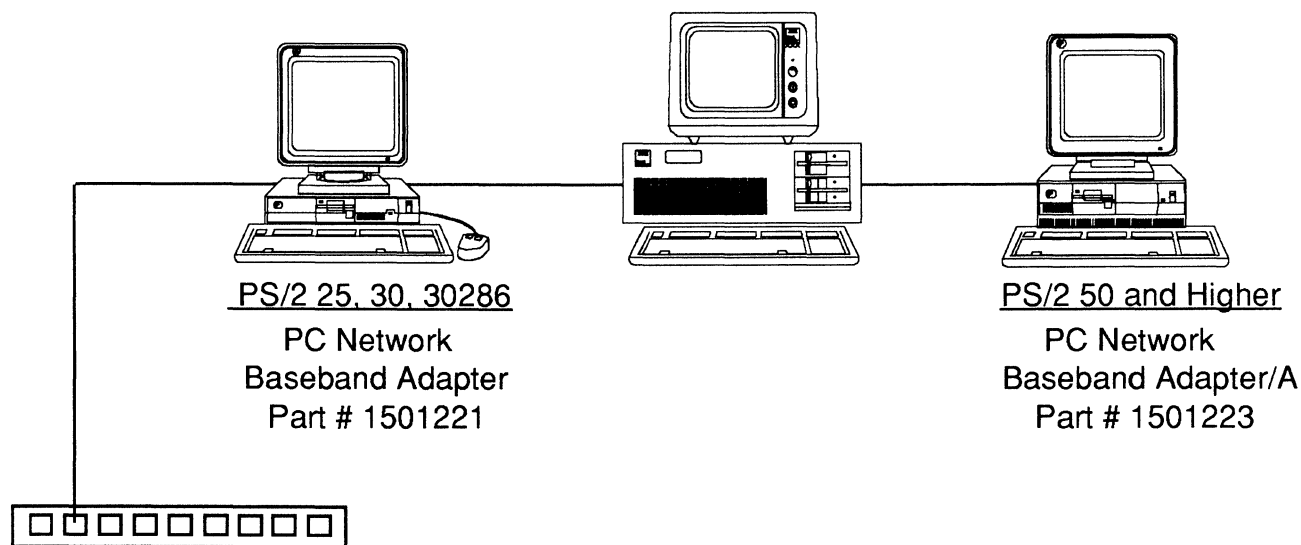
Cable
PC Network Baseband Adapter Cable
Part # 1501229
(other IBM Cables Available)

Software

DOS

1) DOS 3.3 Part # 6280060 (Dual Media)
   or
   DOS 4.0 Part # 6280256 (3.5" Media)
         Part # 6280255 (5.5" Media)
2) PC LAN Program, V1.3
     Part # 84X0061 (5.25" Media)
     Part # 84X0076 (3.5" Media)
     (Servers & Workstations)

3) LAN Support Program V1.1
     Part # 93X5860 (Dual Media)

OS/2

1) OS/2 Extended V1.1
       Part # 90X7899 (5.25" Media)
       Part # 90X7900 (3.5" Media)
       (Servers & Workstations)(*)
2) OS/2 LAN Server, V1.0
       Part # 84X0084 (5.25" Media)
       Part # 84X0083 (3.5" Media)
       (Servers Only)

*Note: (*) An OS/2 LAN Server can be used
by DOS Workstations, but not vice-versa.*

IBM PC Network Baseband
Topology and Configuration

❏ **8 Station Configuration**

200 Feet

No
Extender
Required
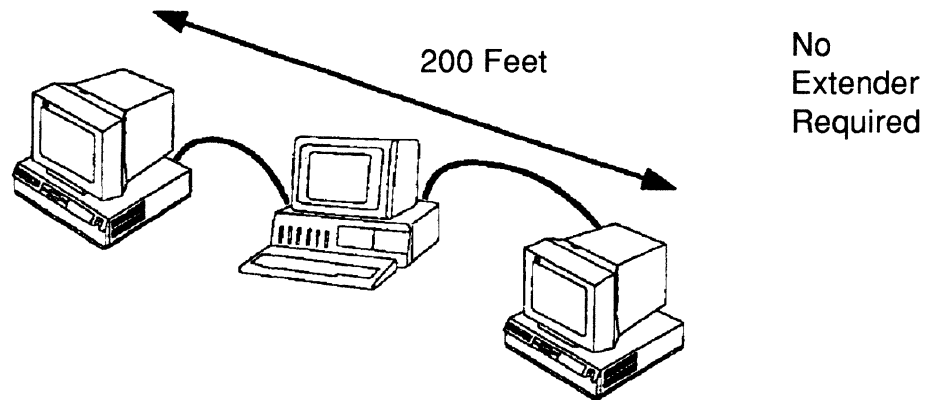
❏ **80 Station with Extender**

P/N 6134339

10 Daisy
Chains

400 Feet
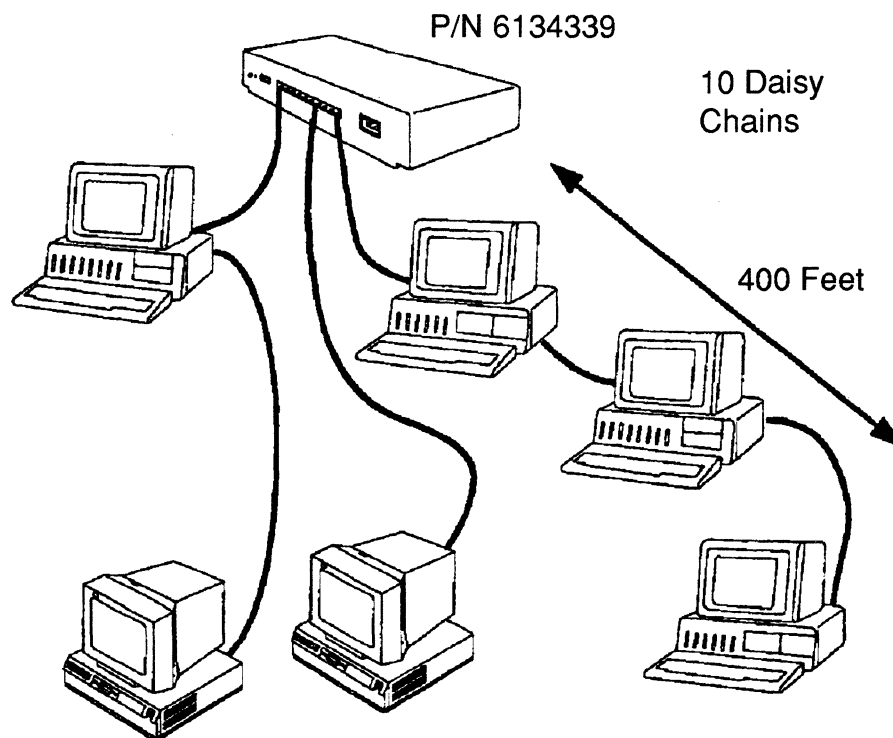
IBM PC Network Accessories Baseband

❏ **25 Foot - 2 Twisted Pair**
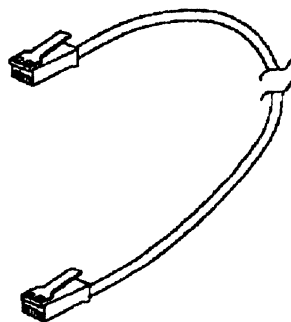
IBM PC Network Baseband Adapter Cable
P/N 1501229

IBM PC Network Baseband
General Purpose Cable
P/N 1501228
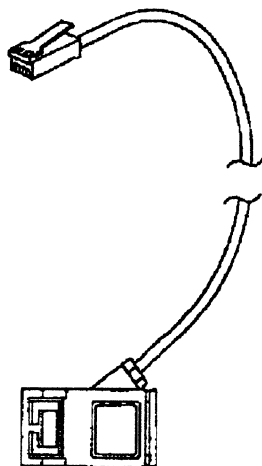
IBM Cabling System PC Network Baseband Cable
P/N 1501227

IBM PC Network

Broadband

PC Network Translator Unit
Part # 5178001

PS/2 25, 30, 30286
PC Network Broadband Adapter II
Part # 1501220

PS/2 50 and Higher
PC Network Broadband Adapter II/A
Part # 1501222
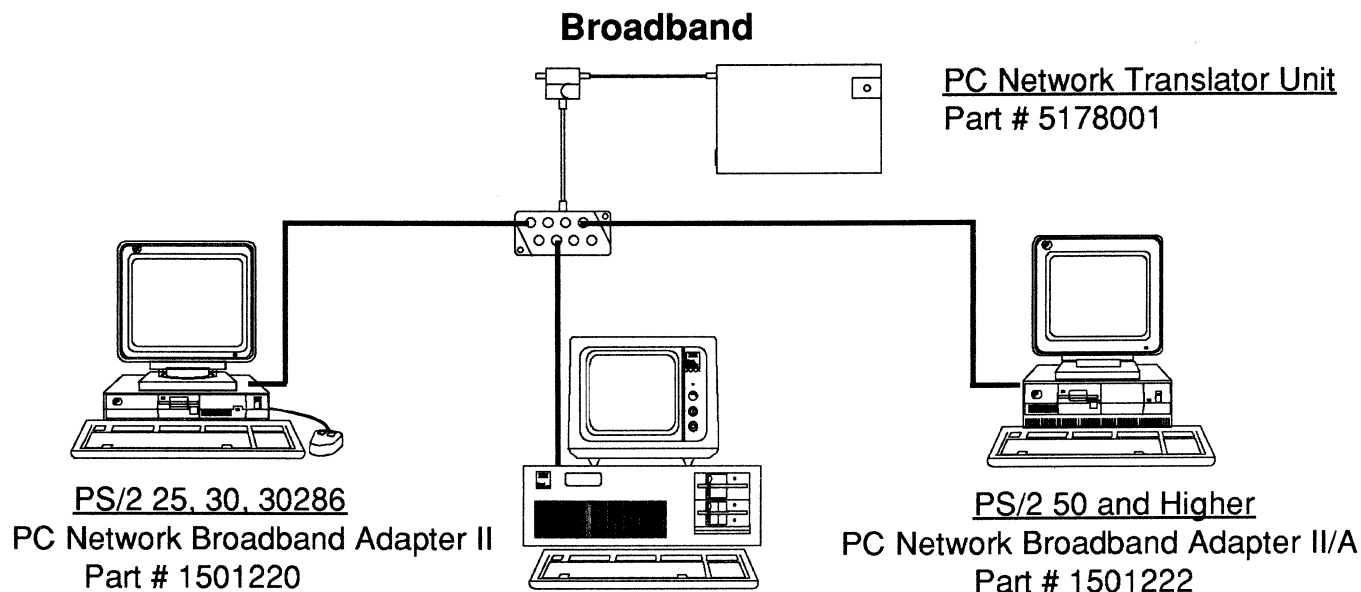
Cable
PC Network 25ft Cable
    Part # 6450234
(Other IBM Cables Available)

Software

| DOS | OS/2 |

1) DOS 3.3 Part # 6280060 (Dual Media)
    or
DOS 4.0 Part # 6280256 (3.5" Media)
        Part # 6280255 (5.5" Media)
2) PC LAN Program, V1.3
    Part # 84X0061 (5.25" Media)
    Part # 84X0076 (3.5" Media)
    (Servers & Workstations)

1) OS/2 Extended V1.1
        Part # 90X7899 (5.25" Media)
        Part # 90X7900 (3.5" Media)
        (Servers & Workstations)(*)
2) OS/2 LAN Server, V1.0
        Part # 84X0084 (5.25" Media)
        Part # 84X0083 (3.5" Media)
        (Servers Only)

3) LAN Support Program V1.1
    Part # 93X5860 (Dual Media)

Note: (*) An OS/2 LAN Server can be used by DOS Workstations, but not vice-versa.

10

PC Network (Broadband)
Components

120V Transformer
P/N 6450238

IBM Translator Unit
P/N 5178001

Translator Units
8-way Splitter

IBM Base
Expander
P/N 6450230

1 Foot

IBM Short
Distance Kit
P/n 6450231

IBM Medium
Distance Kit
P/N 6450232

800 Feet   400 Feet

Cabling Segments

IBM Long
Distance Kit
P/N 6450233

P/N 6450234   25ft
P/N 6450235   50ft
P/N 6450236   100ft
P/N 6450237   200ft
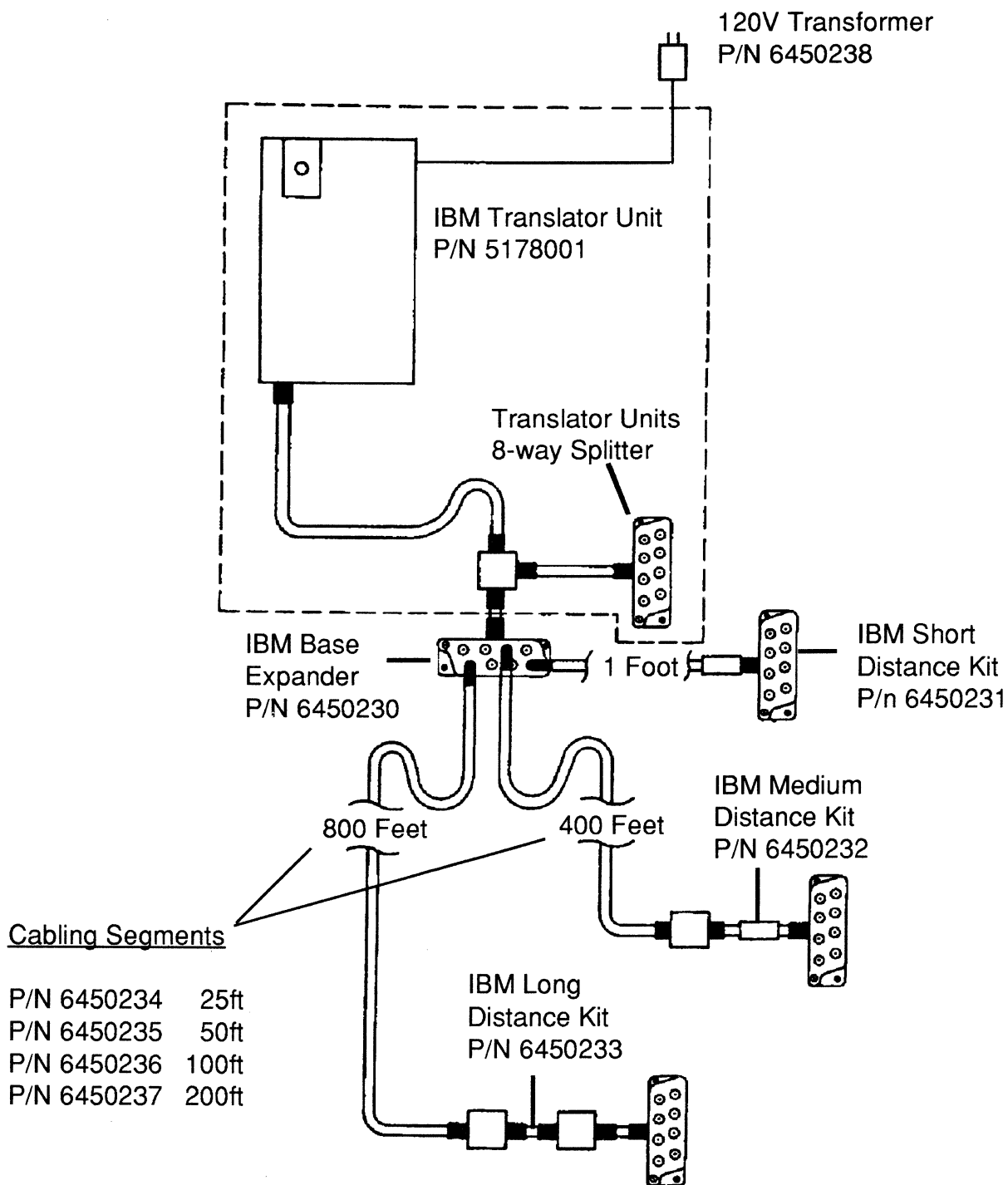
IBM Token-Ring

Token-Ring

Multistation Access Unit
    Part # 6091014

| RI | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | RO |

If remote IPL is required
Part # 25F8887
must be ordered to upgrade the
Token-Ring Adapter #25F7367 or
16F1133 used in the workstation.
For Adapter #69X8138 order
#83X8881
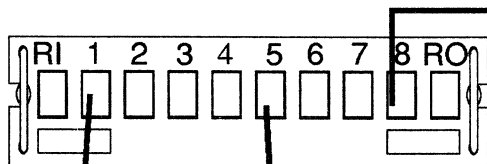
Cable
Token Ring Adapter Cable
    Part # 6339098
(Other IBM Cables Available)

PS/2 25, 30, 30286
Token-Ring Network Adapter II
    Part # 25F9858
        or
Token-Ring Network 16/4 Adapter
    Part # 25F7367

PS/2 50and Higher
Token-Ring Network Adapter/A
    Part # 69X8138
        or
Token-Ring Network 16/4 Adapter/A
    Part # 16F1133

Software

| DOS |

| OS/2 |

1) DOS 3.3 Part # 6280060 (Dual Media)
        or
    DOS 4.0 Part # 6280256 (3.5" Media)
            Part # 6280255 (5.5" Media)
2) PC LAN Program, V1.3
        Part # 84X0061 (5.25" Media)
        Part # 84X0076 (3.5" Media)
        (Servers & Workstations)

3) LAN Support Program V1.1
        Part # 93X5860 (Dual Media)

1) OS/2 Extended V1.1
        Part # 90X7899 (5.25" Media)
        Part # 90X7900 (3.5" Media)
        (Servers & Workstations)(*)
2) OS/2 LAN Server, V1.0
        Part # 84X0084 (5.25" Media)
        Part # 84X0083 (3.5" Media)
        (Servers Only)

Note: (*) An OS/2 LAN Server can be used
        by DOS Workstations, but not vice-versa.

IBM Cabling Selection

Media Selection

The IBM Cabling System provides a number of media alternatives to best match customer requirements. There are two basic types of cable represented here:
    Data Grade - shielded twisted pair
    Voice Grade - specified, unshieled twisted pair
Fiber optic (Type 5) can be used between closets and buildings to build the main ring path
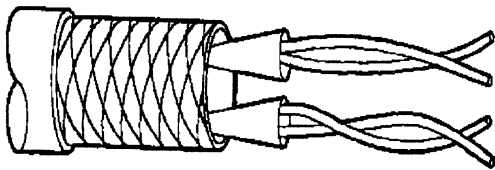
Type 1
Data only cable
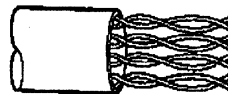
Type 3
Specified Cable
Voice wires
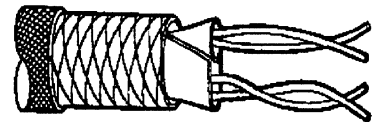
Type 9
Specified Cable
Data only cable for plenum
and modular furniture
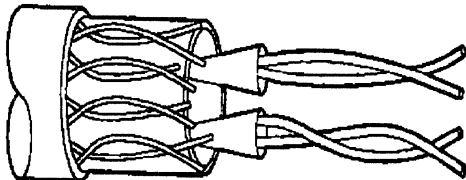
Type 2
Data & Voice
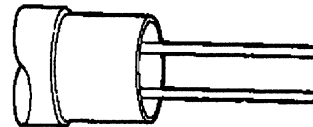
Type 5
Optical fiber cable
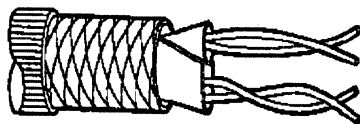
Type 6
Data only patch
cable
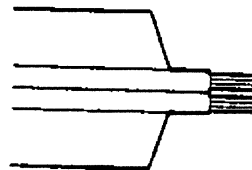
Type 8
Data only undercarpet
cable

IBM Cabling System Media Distances*

	Data Grade Type 1, 2, 9	Voice Grade Type 3
Tested transmission rate	4, 16Mbps	4Mbps
Maximum at 4Mbps		
Number of devices	260	72
Number of wiring closets (between signal repeaters)	12	2

	Type 1, 2*	Type 3
- Without Repeaters -		
Station to Closet		
Recommended Max Distance	100m	45m
Closet to Closet		
Recommended Max Distance	200m	120m

- With Repeaters -
8218 Copper Repeater

Max Distance between repeaters or closets (Not supported at 16Mbps)	750m	600m

8220 Fiber Converter

Max Distance between repeaters or closets		(1.5k-2.0km)

* Note: - Type 9 distances = 2/3 Type 1 distances for Token-Ring
- All distances are appoximate. See Token-Ring Introduction & Planning Guide GA77-3677

Asynchronous Gateways (Up to 32 Lines)

ASCII
Host
System

Up To 32 Async
Communications Lines
Per Gateway (Depending
on model)

Public
Switched
Network

Async

Async

Gateway

Gateway

PS/2 25, 30, 30286
1) LAN Adapter (Broadband,
   Baseband, or Token-Ring)
2) Realtime Interface
   Co-Processor Multiport
   Part #00F5527

PS/2 50and Higher
1) LAN Adapter (Broadband,
   Baseband, or Token-Ring)
2) Realtime Interface
   Co-Processor Multiport/2
   Part # 09F1987 or
      # 16F1820

User

Any PS/2 User
1) LAN Adapter (Broadband,
Baseband, or Token-Ring)

**IBM PC Network or
Token-Ring Network**

User

DOS

OS/2

1) LAN Asynchronous Connection Server Program[A]
   Part # 83X9132 (5.25" Media)
2) LAN Compatible Async Communications Program[B]
3) LAN Support Program V1.1[C]
   Part # 93X5860 (Dual Media)

1) Async Gateway Not Supported.
   Async Connection Available to
   Individual Users Thru OS/2 EE

Note: Modems Not Shown.
   A. Required at Gateway Machine only.
   B. Required at User Machine only
   C. Required at all Machines

Asynchronous Gateways (2 Lines)

ASCII
Host
System

Up To Two Async
Communications Lines
Per Gateway

Async

Public
Switched
Network

Async

Gateway

PS/2 25, 30, 30286
1) LAN Adapter (Broadband,
   Baseband, or Token-Ring)
2) Serial/Parallel Adapter
   Part # 6450215

PS/2 50 and Higher
1) LAN Adapter (Broadband,
   Baseband, or Token-Ring)
2) Dual Async Adapter/A
   Part # 6451013
   or
   Multiprotocol Adapter/A
   Part # 6451003

Gateway

User

Any PS/2 User
1) LAN Adapter (Broadband,
   Baseband, or Token-Ring)

**IBM PC Network or
Token-Ring Network**

User

DOS

OS/2

1) LAN Asynchronous Connection Server Program[A]
   Part # 83X9132 (5.25" Media)
2) LAN Compatible Async Communications Program[B]
3) LAN Support Program V1.1[C]
   Part # 93X5860 (Dual Media)

1) Async Gateway Not Supported.
   Async Connection Available to
   Individual Users Thru OS/2 EE 1.0

Note: Modems Not Shown.
    A. Required at Gateway Machine only.
    B. Required at User Machine only
    C. Required at all Machines

5250 Emulation

Local

Twinax Cable
or
IBM Cabling
System

5X94
Control Unit

S/36   AS/400   S/38

Remote
SDLC

SDLC   SDLC

Integrated Cable Assembly

PS/2 25, 30, 30286
SDLC Adapter
Part # 1501205

PS/2 50and Higher
Multiprotocol Adapter/A
Part # 6451003

PS/2 50 and Higher
System 36/38 Workstation
Emulation Convenience Kit
Part # 69X6287
(Includes: Adapter, Cable, SW)

PS/2 25, 30, 30286
PC Enhanced 5250
Emulation Convenience Kit
Part # 30F5382
(Includes: Adapter, Cable, SW)

Software

DOS

OS/2

Local or Control Unit Remote
1) 5250 Emulation SW Included in
Convenience Kits Above

Standalone Remote
2) Remote 5250 Emulation Program V2.0
Part # 92X0718

1) 5250 Emulation is a Planned
Enhancement For Communications
Manager of OS/2 Extended Edition

Note: Modems Not Shown

AS/400, S/36 Token Ring Connectivity

Note: S/36 Models 5360, 5362,
5364 Require PC Console
For Token Ring Support

AS/400

S/36 (5363)

RI 1 2 3 4 5 6 7 8 RO

Multistation Access Unit
Part # 6091014

PS/2 25, 30, 30286
1) Token-Ring Network Adapter II
Part # 25F9858
or
Token-Ring Network 16/4 Adapter

Part # 25F7367

PS/2 50 and Higher
1) Token-Ring Network Adapter/A
Part # 69X8138
or
Token-Ring Network 16/4
Adapter/A
Part # 16F1133
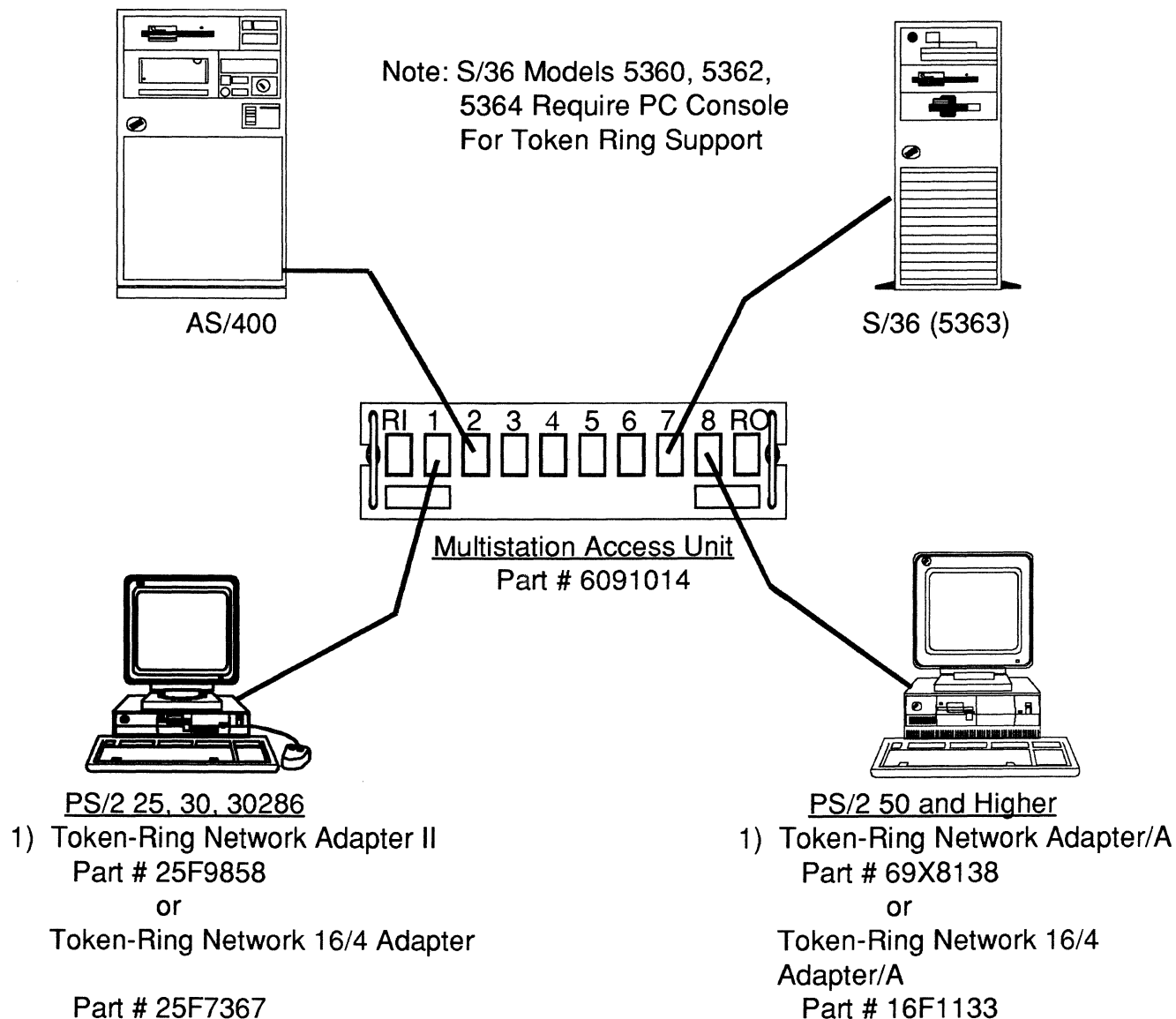
Software

DOS

OS/2

1) LAN Support Program V1.1
Part # 93X5860 (Dual Media)

2) To AS/400
OS/400 PC Support^A

3) To S/36
PC Support/36^A   Note: A - For Part # consult your IBM Sales Representative

3270 To AS/400 (Remote)

PC, PS/2 Gateway
1) SDLC Adapter and
2) Token Ring Adapter

SDLC

SDLC   3174 Control
Unit Gateway

3X74
Control Unit

SDLC

Coax
Cable

Multistation Access Unit
Part # 6091014

PS/2 25, 30, 30286
3278/79 Emulation
Adapter
    Part # 8575427

PS/2 50 and Higher
3270 Connection
    Part # 25F8448

PS/2 25, 30, 30286
Token Ring Network
Adapter II
    Part # 25F9858
        or
Token-Ring Network
16/4 Adapter
    Part # 25F7367

PS/2 50 and Higher
Token Ring Network
Adapter/A
    Part # 69X8138
        or
Token-Ring Network
16/4 Adapter
    Part # 16F1133

DOS

Software

1) 3270 Workstation Program, V1.1
        Part # 75X1088 (Dual Media)
            or
    3270 Emulation Program, V3.0
        Part # 59X9969 (Dual Media)
    (required for PC, PS/2 Gateway function)
            or
    3270 Emulation Entry, V1.2
        Part # 75X1037 (Dual Media)
2) LAN Support Program V1.1
        Part # 93X5860 (Dual Media)
        (Required on Token-Ring)

OS/2

1) OS/2 Extended Edition, V1.1
        Part # 90X7899 (5.25" Media)
        Part # 90X7900 (3.5" Media)

2) The Gateway function is a
    planned enhancement.

Note: Modems Not Shown

PS/2 to S/370 (Coax Attachment)

S/370

37XX
Communications
Controller

Host

3X74
Control Unit

SDLC

Coax
Cable

PS/2 25, 30, 30286
3278/79 Emulation Adapter
Part # 8575427

PS/2 50 and Higher
3270 Connection
Part # 25F8448
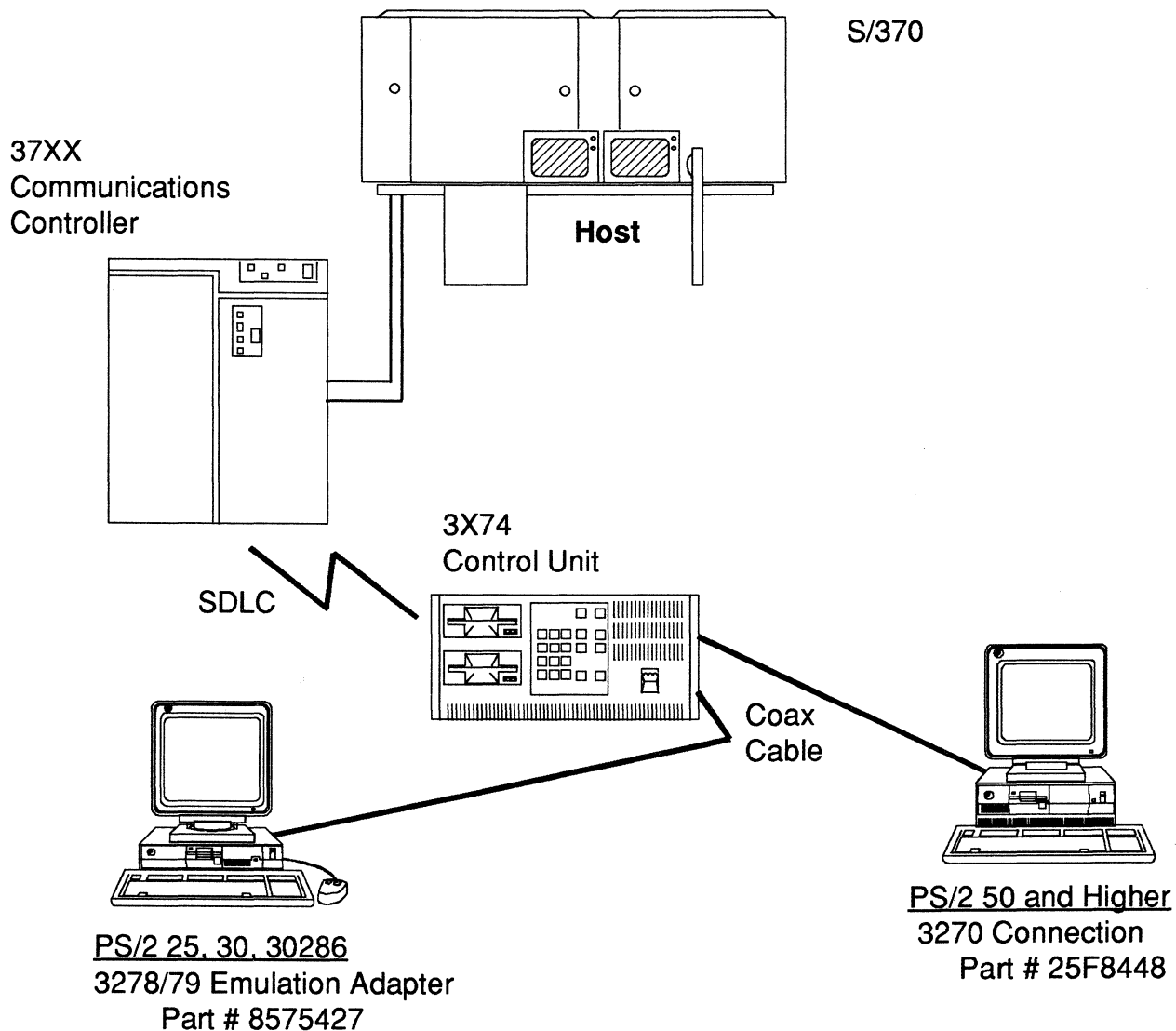
Software

DOS

3270 Emulation Program, Entry Level V1.2
    Part # 75X1037 (Dual Media)
        or
3270 Emulation Program V3.0
    Part # 59X9969 (Dual Media)
        or
3270 Workstation Program V1.1
    Part # 75X1088 (Dual Media)

OS/2

OS/2 Extended Edition, V1.1
    Part # 90X7899 (5.25" Media)
    Part # 90X7900 (3.5" Media)

Note: Modems Not Shown

PS/2 to S/370 (Token-Ring or SDLC)

3X74
Control Unit

S/370

37XX
Communications
Controller

PC, PS/2 Gateway
Token-Ring Adapter

37XX
Communications
Controller

Multistation Access Unit
Part # 6091014

SDLC

SDLC

PS/2 25, 30, 30286 Token-Ring Adapter Part # 25F9858 or Part # 25F7367	PS/2 50 and Higher Token-Ring Adapter Part # 69X8138 or Part # 16F1133	PS/2 25, 30, 30286 SDLC Adapter Part # 1501205	PS/2 50 and Higher Multiprotocal Adapter/A Part #6451003
DOS	OS/2 **Software**	DOS	OS/2
3270 Emulation Program V3.0 Part # 59X9969 (Dual Media) or 3270 Workstation Program V1.1* Part # 75X1088 (Dual Media)	OS/2 Extended Edition, V1.1 Part # 90X7899 (5.25" Media) Part # 90X7900 (3.5" Media)	3270 Emulation Program V3.0 Part # 59X9969 (Dual Media)	OS/2 Extended Edition, V1.1 Part # 90X7899 (5.25" Media) Part # 90X7900 (3.5" Media)

Note: - LAN Support Program, V1.1 required
for Token-Ring Attachment under DOS.
- Modems not Shown.

* Cannot use PC or PS/2 Gateway

PS/2 Gateway or Standalone To S/370

S/370

Host

37XX
Communications
Controller

SDLC

SDLC

Any
IBM
LAN

Gateway

Gateway

PS/2 25, 30, 30286	PS/2 50 and Higher	PS/2 50, 60, 70 ,80	PS/2 50 and Higher
SDLC Adapter	Multiprotocol Adapter/A	Multiprotocol Adapter/A	SDLC Adapter
Part # 1501205	Part # 6451003	Part # 6451003	Part # 1501205

Software

DOS

OS/2

3270 Emulation Program, V3.0
    Part # 59X9969 (Dual Media)

LAN Support Program, V1.1
(Required for Token-Ring Attachment)

Gateway is a Planned Enhancement

Standalone (SDLC or TR)
OS/2 Extended Edition, V1.1
    Part # 90X7899 (5.25" Media)
    Part # 90X7900 (3.5" Media)

Note: Modems Not Shown

Inter-LAN Connections

Token-Ring

Token-Ring
Bridge

Token-Ring

Token-Ring
PC Network
Bridge

SDLC
Leased
Line

Remote
Token-Ring
Bridge

PC Network
Broadband
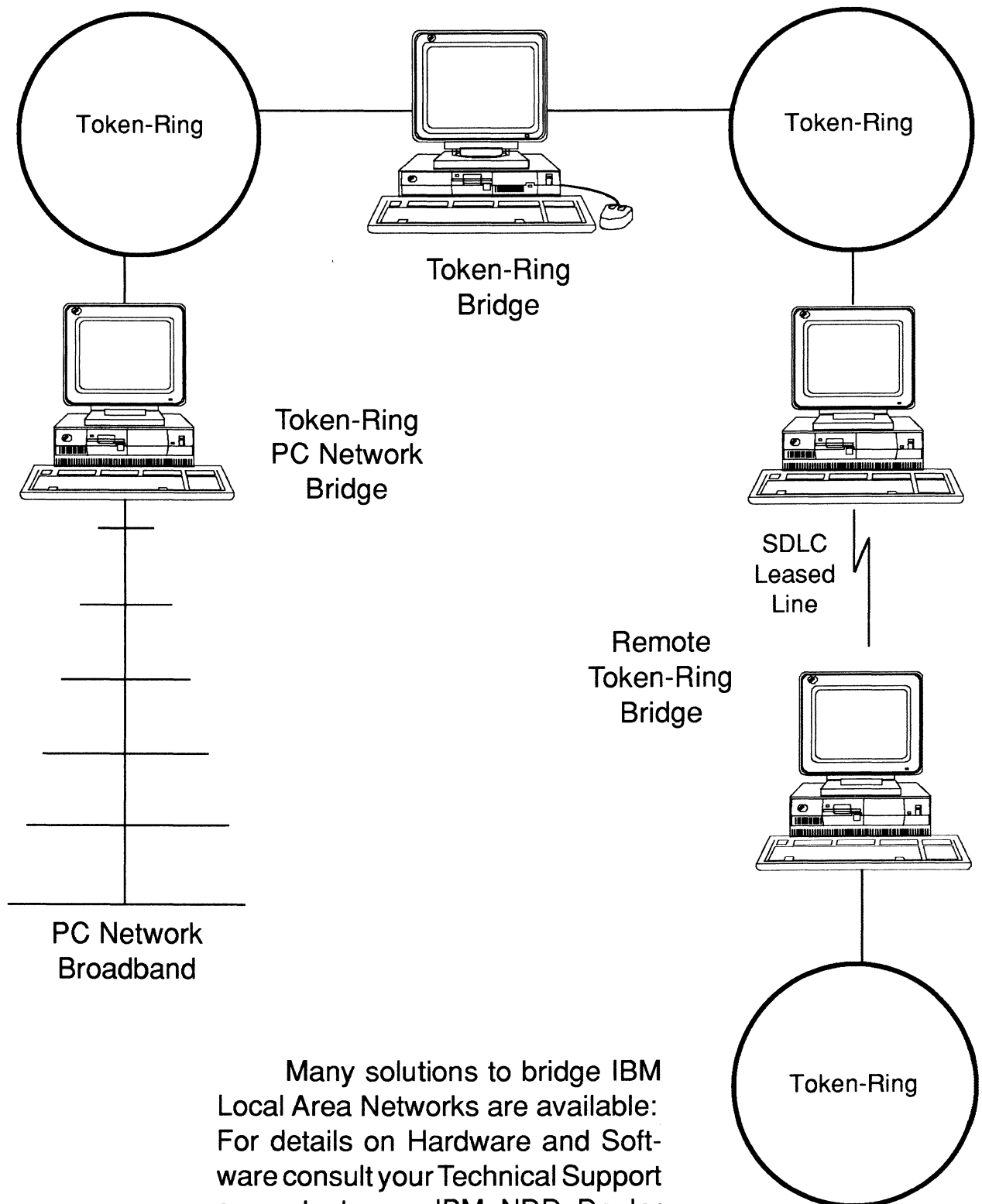
Many solutions to bridge IBM Local Area Networks are available: For details on Hardware and Software consult your Technical Support or contact your IBM NDD Dealer Representative.

Token-Ring

Remote Access to LAN'S

Gateway   Async   Remote

Any
IBM
LAN
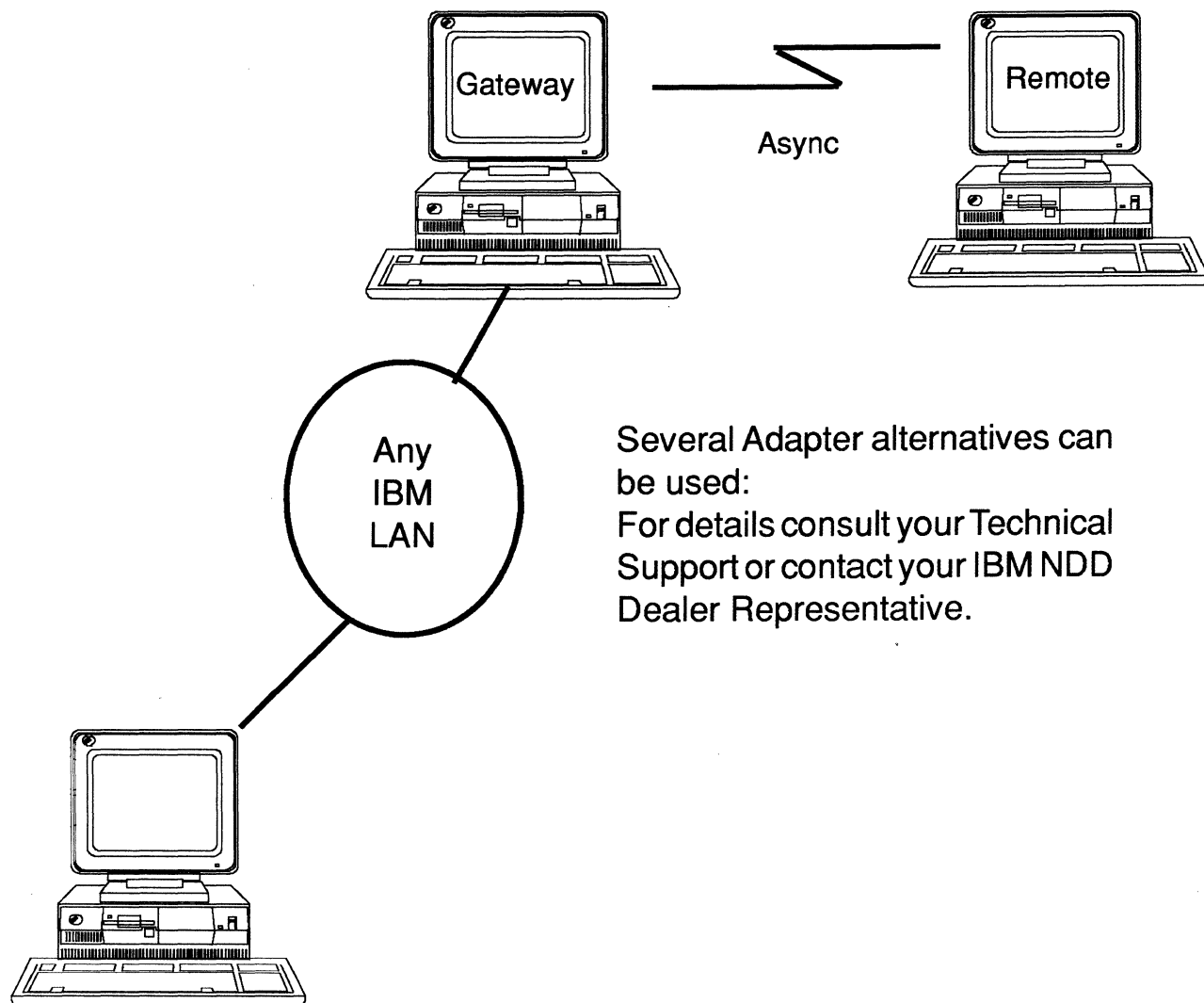
Several Adapter alternatives can
be used:
For details consult your Technical
Support or contact your IBM NDD
Dealer Representative.

Software

DOS

OS/2

1) Remote NETBIOS Access Facility
   Part # 16F0535
   (at Gateway and Remote Machines)

2) LAN Support Program, V1.1
   (at Gateway Machine only)

3) PC LAN Program, V1.3
   (at Remote Machines only)

Not Available
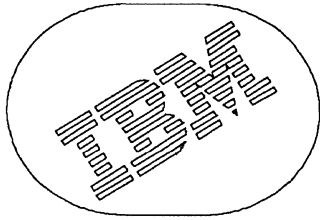
**Personal System/2
& Printer
Sales Advisor**

IBM PS/2 Product Reference

IBM Printers and Accessories
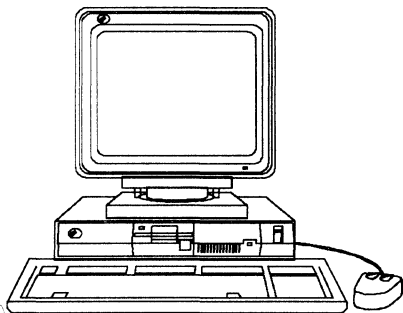
International Business Machines Corporation

IBM Personal Printers at a Glance

```
Dot Matrix                                    Resistive Ribbon
Impact                                        Thermal Transfer
Printers                                      Printers
   |                                              |
   +---------------------------+                  |
   |                           |                  |
9-Wire                      24-Wire               |
   |                           |                  |
 +-----------+         +-------------+            |
 |           |         |             |            |
Narrow     Wide      Narrow        Wide         Wide
Carriage  Carriage  Carriage     Carriage      Carriage
 |           |         |             |            |
```

Proprinter II
4201002

Proprinter II XL
4202002

Proprinter X24E
4207002

Proprinter XL24E
4208002

**Quietwriter Printer
Model 2**
5201002

Proprinter III
4201003

Proprinter III XL
4202003

**Quickwriter
Printer**
5204001

**Quietwriter III
Printer**
5202001
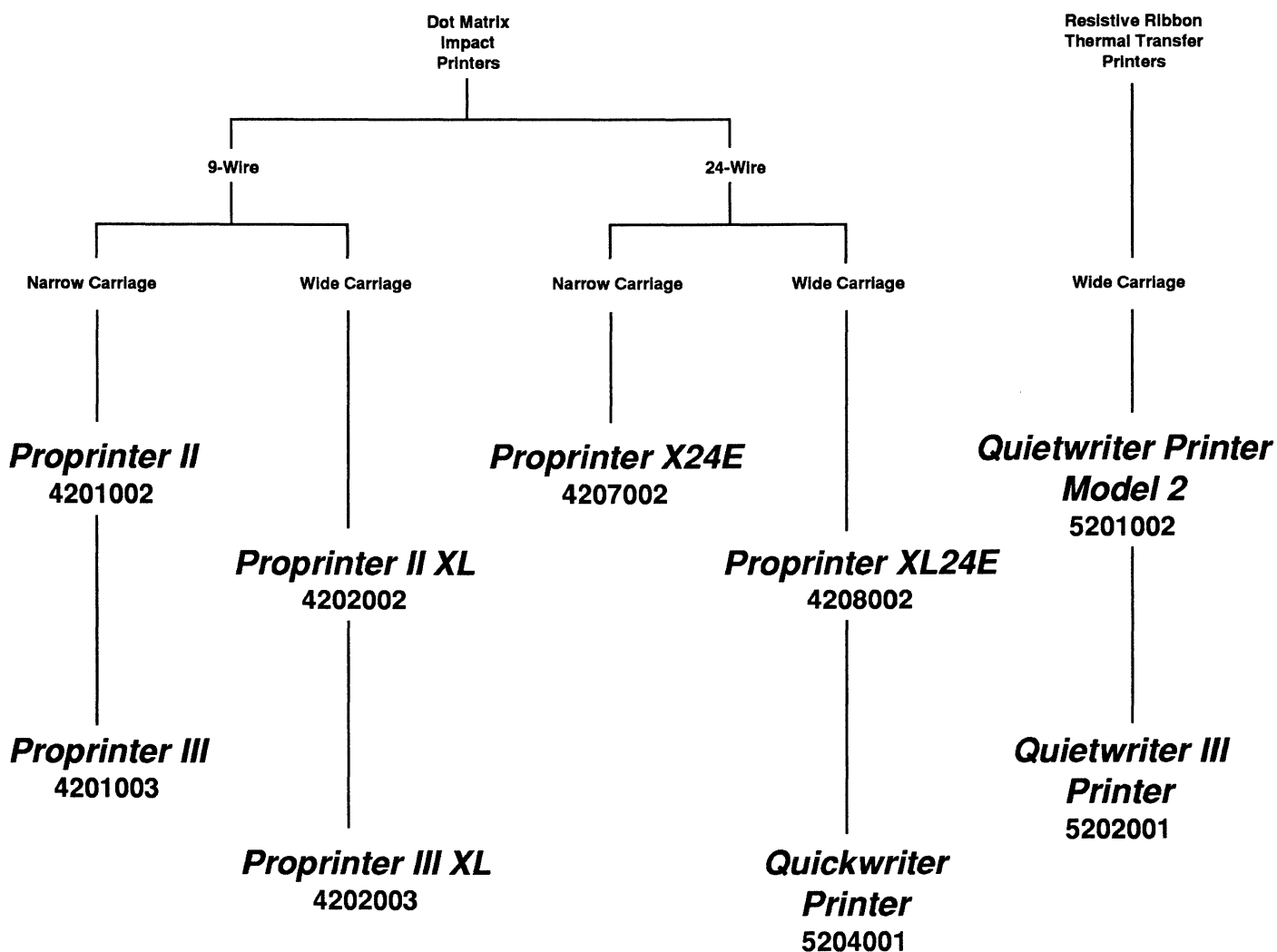
Personal System/2 Printers

IBM Personal Printers at a Glance

	PROPRINTER II	PROPRINTER II XL	PROPRINTER III	PROPRINTER III XL	PROPRINTER X24E	PROPRINTER XL24E	QUICKWRITER PRINTER	QUIETWRITER III PRINTER	QUIETWRITER PRINTER MODEL 2
RATED SPEED (CPS)	240 Fastfont 200 Draft 10 CPI 40 NLQ 10 CPI	240 Fastfont 200 Draft 10 CPI 40 NLQ 10 CPI	320 Fastfont 270 Draft 10 CPI 65 NLQ 10 CPI	320 Fastfont 270 Draft 10 CPI 65 NLQ 10 CPI	288 Draft 12 CPI 240 Draft 10 CPI 96 LQ 12 CPI 80 LQ 10 CPI	288 Draft 12 CPI 240 Draft 10 CPI 96 LQ 12 CPI 80 LQ 10 CPI	330-396 Draft 110-188 LQ 55-66 Selectric Font	160-274 Draft 110-171 LQ 80-136 Enhanced	48 LQ 12 CPI 40 LQ 10 CPI
MAXIMUM GRAPHICS RESOLUTION (APA)	144 x 240 DSI	144 x 240 DSI	144 x 240 DSI	144 x 240 DSI	180 x 360 DSI	180 x 360 DSI	180 x 360 DSI 240 x 240 Quietwriter Emulation	240 x 240 DSI	240 x 240 DSI
PITCH	5, 6, 8.5, 10, 12, 17.1 CPI & PS	5, 6, 8.5, 10, 12, 17.1 CPI & PS	5, 6, 8.5, 10, 12, 17.1, 20 CPI & PS	5, 6, 8.5, 10, 12, 17.1, 20 CPI & PS	5, 6, 8.5, 10, 12, 17.1 CPI & PS	5, 6, 8.5, 10, 12, 17.1 CPI & PS	10, 12, 15, 17.1 CPI & PS 15 CPI via Download Font	10, 12, 17.1 CPI & PS	10, 12, 15, 17.1 CPI & PS via Cartridges
MAXIMUM PRINT LINE	8"	13.6"	8"	13.6"	8"	13.6"	13.2"	13.2"	13.2"
PC INTERFACE	Parallel Standard Async. Serial Optional	Parallel Standard Async. Serial Optional	Parallel Standard RS232/422 Optional	Parallel Standard RS232/422 Optional	Parallel Standard RS232/422 Optional	Parallel Standard RS232/422 Optional	Parallel Standard RS232/422 Optional	Parallel Standard	Parallel Standard
ACOUSTICS	60 DBA	60 DBA	59 DBA	59 DBA	58 DBA	58 DBA	59 DBA	45 DBA	50 DBA
MULTIPORT FORMS (ORIGINAL + COPIES)	1 + 3	1 + 3	1 + 3	1 + 3	1 + 3	1 + 3	1 + 4	N/A	N/A
PAPER HANDLING OPTIONS	N/A	N/A	Auto Sheet Feed	Auto Sheet Feed	Auto Sheet Feed	Auto Sheet Feed	Adj. Single Bin Pinwheel Forms Dual Drawer Envelope	Adj. Single Bin Pinwheel Forms Dual Drawer Envelope	Single Drawer Pinwheel Forms
RESIDENT FONTS	2	2	3	3	4	4	8	4	
MAXIMUM FONTS ONLINE	2	2	3	3	4	4	12	8	2
PRINT BUFFER	4K Standard 8K Optional	4K Standard 8K Optional	7K Standard 32K Optional	7K Standard 32K Optional	14K Standard	14K Standard	8K Standard 32K Optional	15K Standard	15K Standard

Systems and Display Attachment

	PROPRINTER II	PROPRINTER II XL	PROPRINTER III	PROPRINTER III XL	PROPRINTER X24E	PROPRINTER XL24E	QUICKWRITER PRINTER	QUIETWRITER III PRINTER	QUIETWRITER PRINTER MODEL 2
MAINFRAME HARDWARE ATTACHMENT to 3090, 308X, 9370 and 43XX									
- 3192-G Display Station	✓	✓	✓	✓	✓	✓	✓	✓	✓
- 3174 ASYNC Emulation Adapter	✓	✓	✓	✓	✓	✓	✓		
- 9370 ASCII Subsystem Controller	✓	✓	✓	✓	✓	✓	✓		
MID-RANGE HARDWARE ATTACHMENT to System/36 and System/38									
- 3197 Display Station	✓	✓	✓	✓	✓	✓	✓	✓	✓
- 5208 ASCII 5250 Link Protocol Converter	✓	✓	✓	✓	✓	✓	✓	✓	✓
- AS/400 9404 ASCII Workstation Controller	✓	✓	✓	✓	✓	✓	✓		
VIA EMULATION PROGRAMS for AS/400, System/36 and System/38									
- Enhanced 5250	✓	✓	✓	✓	✓	✓	✓	✓	✓
- Remote 5250	✓	✓	✓	✓	✓	✓	✓	✓	✓
- Workstation Emulation Program	✓	✓	✓	✓	✓	✓	✓	✓	✓
OR									
- AS/400 PC Support	✓	✓	✓	✓	✓	✓	✓	✓	✓
- PC Support/36 Workstation Feature	✓	✓	✓	✓	✓	✓	✓	✓	✓

NOTE: Refer to "Connecting IBM Personal Printers to Displays and Systems" part number 1319141 for additional attachment and limitations information.

4

Personal System/2 Printers

IBM Personal Printer Supplies, Accessories & Options

	PROPRINTER II	PROPRINTER II XL	PROPRINTER III	PROPRINTER III XL	PROPRINTER X24E	PROPRINTER XL24E	QUICKWRITER PRINTER	QUIETWRITER III PRINTER	QUIETWRITER PRINTER MODEL 2
INTERFACES									
Asynchronous Serial	6493187	6493187					Standard		
RS-232C/RS-422 Serial			23F4395	23F4395	23F4395	23F4395			
BUFFERS									
5K Print Buffer	6493188	6493188							
32K Print Buffer			23F4190	23F4190			1319391		
RIBBONS									
4201 Proprinter	6328829		6328829						
4202 Proprinter XL		1040150		1040150					
4207 Proprinter X24					1040475				
4208 Proprinter XL24						1040414			
5204 Film							1319300		
5204 Fabric							1319308		
5202 Quiet II High Yield								1299933	
5201 Quiet Non-Correcting									1299790
PRINTHEAD & CLEANING CARTRIDGES									
Quiet III Printhead								1318154	
Quiet Printhead									1337488
Quiet Cleaning Cartridge									1299633
CABLES									
PC Parallel	1525612	1525612	1525612	1525612	1525612	1525612	15225612	1525612	1525612
Serial	8509386	8509386	8509386	8509386	8509386	8509386	6486685		
Systems Serial							1319143		
FONTS[1]									
FontSet Package					94X6120	94X6120			
FontSet (Diskette Only)					94X6121	94X6121			
FontSet (Module Only)					94X6122	94X6122			
Font Download Package							1319371		
Font Download Package (Diskettes Only)							1319372		
Pluggable Font Cartridges							(1)		
PC Multilingual Package								1318659	
PC Multilingual Package (Diskettes Only)								1318670	
PC Word Processing Package								1318459	
PC Word Processing Package (Diskettes Only)								1318570	
Blank Download Cartridge							1318800	1318800	
Electronic Font III Cartridges									
Quiet Electronic Font Cartridges								(1)	(1)
PAPER HANDLING									
Proprinter Auto Sheet Feed			87X9519	87X9520	87X9519	87X9520			
Adjustable Single Bin Sheet Feed							6487000	6487000	
Single Drawer Sheet Feed									6373100
Pinwheel Forms Feed							1319018	1319014	1341091
Dual Drawer Sheet Feed							1058077	1058077	
Envelope Option[2]							1479620	1479620	

Notes:

1 - For specific type styles and part numbers refer to Personal Printer Marketing Reference Guide (G71K-7069-01).
2 - Requires Dual Drawer Sheet Feed.

PROPRINTER II/II XL

Technology	9-wire dot matrix
Description	Entry-level, near-letter-quality, impact printers

Speed

Draft:	200-240 cps
Near-Letter-Quality:	40 cps

Fonts

Two NLQ fonts (NLQ--Sans Serif and
NLQ II--Courier like)
Variable pitch (5, 6, 8.5, 10, 12, 17.1, and PS)

Paper Handling

Built-in adjustable tractors
Front slot for single sheets
Up to four-part forms support and envelope support
Document-on-demand and tear assist
Forms load assist
Narrow carriage (8" print line) or
         wide carriage (13.6" print line) models

Other

Standard parallel interface
144 x 240 APA graphics resolution
Operator panel selectable fonts, print modes,
         speeds and pitches
Quiet mode
Optional asynchronous serial interface
Optional 8K print buffer

IBM Part No.   4201002/4202002

**IBM Single Unit
    Price** $575/$799

PROPRINTER III/III XL

Technology	9-wire dot matrix
Description	Fast, near-letter-quality, impact printers

Speed

Draft:	270-320 cps
Near-Letter-Quality:	65 cps

Fonts

Three NLQ fonts (NLQ--Sans Serif, NLQ II--
       Courier like, and NLQ II italics)
Variable pitch (5, 6, 8.5, 10, 12, 17.1, 20 and PS)

Paper Handling

Built-in adjustable tractors
Front slot for single sheets
Propark -- one touch paper parking
Up to four-part forms support and envelope support
Document-on-demand and tear assist
Forms load assist
Narrow carriage (8" print line) or
       wide carriage (13.6" print line) models
Optional automatic single sheet feeds

Other

Standard parallel interface
Standard 7K print buffer
Optional 32K print buffer
144 x 240 APA graphics resolution
Operator panel push button control for most
       commonly used print functions
Optional RS-232/RS-422 serial interface

IBM Part No.	4201003/4202003
IBM Single Unit Price	$699/$925

PROPRINTER X24E/XL24E

Technology

24-wire dot matrix

Description

Light to medium-duty, letter quality,impact printer

Speed

Draft: 240-288 cps
Letter Quality: 80- 96 cps

Fonts

Four resident type styles (Draft 10/12,
       Courier 10 & PS, Prestige Elite 12)
Up to five type styles online using download fonts
Optional FontSet™ provides eleven additional
       type styles to choose from
Variable pitch (5, 6, 8.5, 10, 12, 17.1 and PS)

Paper Handling

Built-in adjustable tractors
Front slot for single sheets
Propark -- one touch paper parking
Up to four-part forms support and envelope support
Document-on-demand and tear assist
Forms load assist
Narrow carriage (8" print line) or
       wide carriage (13.6" print line) models
Optional automatic single sheet feeds

Other

Standard parallel interface
Standard 14K print buffer
180 x 360 APA graphics resolution
Operator panel push button control
       for most commonly used print functions
Optional RS-232/RS-422 serial interface

IBM Part No.

4207002/4208002

**IBM Single Unit
  Price**

$899/$1,199

QUICKWRITER PRINTER

Technology	24-wire dot matrix
Description	Medium-duty, high-function, Selectric quality, impact printer
Speed	Draft: 330-396 cps Letter Quality: 110-188 cps Selectric Font: 55- 66 cps
Fonts	Eight resident fonts (4 LQ/4 Draft) Up to Twelve online with optional fonts pitch (10, 12, 15, 17.1 and PS) Pluggable Cartridges, including Selectric quality fonts and bar codes Downloadable fonts to blank cartridges
Paper Handling	Manual semi-automatic single sheet feed Five-part forms capability Automatic printhead adjustment with envelope option 13.2" print line Optional Pinwheel Forms Feed Optional Adjustable Single Bin Sheet Feed Optional Dual Drawer Sheet Feed Optional Envelope Feed (requires Dual Drawer)
Other	Film or fabric ribbons Standard parallel and serial interface 180 x 240 APA graphics resolution 240 x 240 APA Quietwriter III emulation Optional 32K print buffer
IBM Part No.	5204001
IBM Single Unit Price	$1,699

QUIETWRITER III PRINTER

Technology	IBM exclusive Resistive Ribbon Thermal Transfer
Description	Executive letter-quality, high-function, quiet 45 dBA, non-impact printer
Speed	Draft: 160-274 cps Quality: 100-171 cps Enhanced: 80-136 cps
Fonts	Four resident fonts (Courier 10/12/17 & Boldface) Up to eight fonts online with optional fonts Variable pitch (10, 12, 15, 17.1 and PS) Pluggable Cartridges Downloadable fonts to blank cartridges
Paper Handling	Manual semi-automatic single sheet feed 13.2" print line Optional Pinwheel Forms Feed Optional Adjustable Single Bin Sheet Feed Optional Dual Drawer Sheet Feed Optional Envelope Feed (requires Dual Drawer)
Other	Standard parallel interface Standard 15K print buffe 240 x 360 PEL text resolution 240 x 240 APA graphics resolution
IBM Part No.	5202001
IBM Single Unit Price	$1,749

QUIETWRITER PRINTER MODEL 2

Technology	IBM Resistive Ribbon Thermal Transfer
Description	Executive letter-quality, quiet, non-impact printer
Speed	Letter Quality: 40-60 cps
Fonts	Up to two fonts online via cartridges Variable pitch (10, 12, 15, 17.1 and PS) Variety of optional font cartridges
Paper Handling	Manual semi-automatic single sheet feed 13.2" print line Optional Pinwheel Forms Feed Optional Single Drawer Sheet Feed
Other	Standard parallel interface Standard 15K print buffer 240 x 360 PEL text resolution 240 x 240 APA graphics resolution
IBM Part No.	5201002
IBM Single Unit Price	$1,039

IBM Personal Printers
Non-IBM Product Compatibility

The compatibility information presented below is intended to give general guidelines for the attachment of IBM printers to selected non-IBM computer systems.

Compatible means only that the same test case used by IBM to perform this limited test, input to a non-IBM computer system, produced the same printer output as when it was input on an IBM PC.

The IBM printers implement IBM's version of the parallel or serial interface. IBM has performed limited test of the IBM printers and the listed non-IBM computer systems using the appropriate cables and DOS print facilities. There were no problems attributable to interface differences. However, sending data to a powered-off printer may produce unpredictable results.

The only way to ensure satisfactory results is for the user to test the specific printer, computer system, and software combination for the desired results.

IBM MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE WARRANTY OF MERCHANTABILITY AND THE IMPLIED WARRANTY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE COMPATIBILITY OF IBM PRINTERS AND NON- IBM COMPUTER SYSTEMS.

	Proprinter II/II XL	Proprinter III/III XL	Proprinter X24E/EL24E	Quickwriter Printer	Quietwriter III Printer
AT & T Personal Computer 6300	C	C	C	P1	C
Businessland® WYSE® PC 286	C	C	C	C	C
COMPAQ Portable Computer	C	C	C	C	C
COMPAQ Portable II™	C	C	C	C	C
COMPAQ Deskpro™	C	C	C	C	C
COMPAQ Deskpro 286®	C	C	C	C	C
COMPAQ Deskpro 386™	C	C	C	C	C
Computerland PC 286	C	C	C	C	C
Epson® Equity™ I	C	C	C	C	C
Epson Equity II	C	C	C	C	C
Leading Edge® Model "D"™	C	C	C	C	C
NEC Info Systems APCIII	C	C	C	P2	C
NEC Info Systems APCIV™	C	C	C	C	C
TANDY® 3000 HD	C	C	C	C	C
TANDY 1000 SX	C	C	C	C	C
Toshiba T1100 Plus	C	C	C	C	C
Toshiba T3100	C	C	C	C	C
Zenith Z-158	P3	P3	P3	P3	P3
Zenith Z-171	P3	P3	P3	P3	P3
Zenith Z-181	P3	P3	P3	P3	P3
Zenith Z-200	P3	P3	P3	P3	P3

Legend

C = Compatibile

Partially Compatible:

P1= Compatible in parallel attachmetn mode.
Partially compatible in serial attachment mode.
(will not print to "PRN" with LPT1: redirected to COM1)

P2= Not tested in parallel attachment mode.
Compatible in serial attachment mode.

P3= No IBM compatible graphic screen dump

Trademarks

APCIV is a trademark of NEC Corporation

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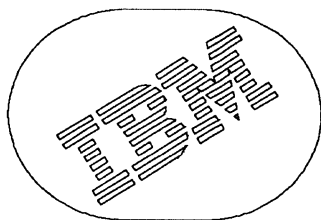
IBM PS/2 Product Reference

IBM Desktop Publishing and PostScript Laser Printing

International Business Machines Corporation
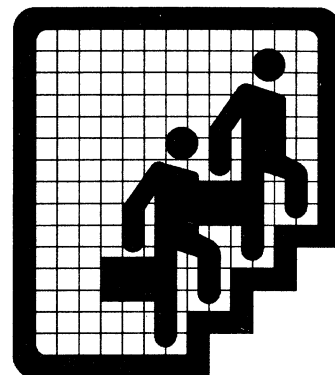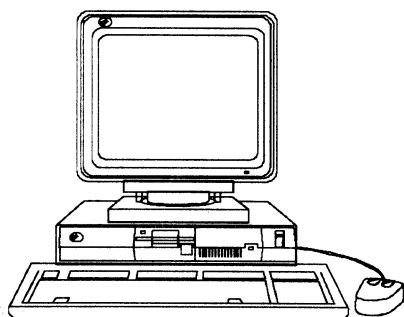
Desktop Publishing and PostScript Laser Printing
Market Positioning

The Importance of Desktop Publishing and PostScript Laser Printing in Business Today

All across the country, people who already use personal computers for their basic business applications are starting to realize that they no longer have to be satisfied with less than first-rate quality when it comes to their printed communications. Now they can produce documents that look every bit as good as those coming from a printing press. That's the real impact of desktop publishing in every office today.

Why is there so much interest in desktop publishing now? It's easy to see, once you realize that we're all in the publishing business. Every one of us, whether we sell products or services, or are involved in education or government, depends on printed information to get our message across. The more professional the appearance of this message, the better impression it makes on your audience.

Time and time again, studies show that professional looking documents are more readable, and therefore, more persuasive than typewritten documents. Those who have upgraded to PostScript laser printing recognize that their message is more likely to be read, will be better understood, and it will be remembered longer.

And publishing isn't limited to printed documents. Publishing also includes presentations. If you use overhead foil projectors, and you're looking for fast, professional quality results for presentations to your boss, your colleagues, or your customers, there's nothing like creating an overhead foil with your favorite software on the PS/2 and printing it directly on foils with your IBM laser printer.

Whether you want to produce high quality presentations, forms, flyers, advertisements, newsletters, proposals, or general publicity, you don't always have the time and money to have the work done by outside design and typesetting services. With PostScript laser printing for simple documents and desktop publishing for more complex documents, this work can be brought in-house, speeding up the process of document creation, and offering significant cost benefits.

For document readability, typestyle selection is of great importance. You no longer have to settle for 12 point Courier type--you can choose from thousands of type style and size combinations. Also, you're not limited to 300 dots per inch when it comes to resolution. You can proof your publication on the new IBM Personal Page Printer II--a 300 dot per inch PostScript laser printer, and send a file to a typesetter for resolution up to 2,540 dots per inch--the resolution of the finest magazines. This service is available in most cities while you wait, or via modem overnight, at a cost of about $5 to $10 per page.

Desktop Publishing and PostScript Laser Printing
Market Positioning

Of course, to do this, you must be sure that your desktop publishing system includes PostScript. This page description language, as implemented by Adobe Systems on the IBM Personal Page Printer II, gives you a selection of 43 different typestyles, in an almost unlimited range of sizes.

The number of fonts depends on the software that you are using. For example, with many applications like Aldus PageMaker and Ventura Publisher, you have access to thousands of fonts. Non-PostScript laser printers typically include only 6 fonts in the purchase price. If you wanted to duplicate the thousands of fonts that you get from IBM, you could spend tens of thousands of dollars for cartridges or down-loadable fonts, plus additional memory and disk storage.

IBM's new PostScript laser printer gives you additional capability not available with non-PostScript printers, such as reverse type (white type on a black background), and scaling, which lets you produce letters as large as 2 to the 90th power.

With typesetting services costing between $100 and $200 per page in many locations, you don't have to be a mathematician to figure out that you could justify adding full PostScript laser printing capability to an existing IBM system after producing as few as 50 pages.

More and more software products are coming out with universal PostScript drivers, which support the IBM Personal Page Printer II. Most of the popular spreadsheet, word processing, and graphics programs already have PostScript drivers or have announced plans to add them in the future. Now, you can get professional looking results directly from such applications as WordPerfect, AutoCAD, and Excel. And you can directly import files from these programs into major desktop publishing programs for inclusion in more elaborate documents

And, if you're using software that does not yet provide PostScript support, the IBM Personal Page Printer II has the ability to emulate non-PostScript printers such as the Hewlett-Packard Laser Jet Plus and the IBM Proprinter.

With IBM's new PostScript laser printer, you can do desktop publishing with Aldus PageMaker, Ventura Publisher, the IBM Interleaf Publisher, or a low-cost, entry-level publishing package. If you're just looking for a higher quality typeset look that you want for output from word processors or spreadsheet programs, this is the laser printer to attach to the PS/2 or AT on your desktop.

With its 300 dot per inch output, its crisp, sharp, black print, its quiet, reliable operation, and its ease of use, this printer can really help an organization improve the quality of its business communications.

Desktop Publishing and PostScript Laser Printing
Market Positioning

With the appropriate communications adapters and software, an IBM publishing system can communicate to other IBM systems in a network. You can use the services of your already installed network to transmit publishing files to other locations in your business. And when you are not doing publishing, a great variety of business software is available to run on your IBM PC or PS/2.

Desktop publishing isn't a matter of typographic text alone. Charts, graphs, and original artwork can be created with hundreds of graphics, paint, draw, and charting applications. And when you add the capability to include any available photograph or piece of line art, your publication takes on the look of a truly professional piece of communication. This is where a scanner comes in.

Find a pie chart, bar chart or line art that adds life to your message. In seconds, you can have a copy of the image to place in your document at any size, reduced or enlarged, that is best suited to your message.

With the superior resolution of a 128 gray level scanner--the IBM PageScanner--you can do just that. This scanner, for use on the PS/2 Model 50 or higher, provides 300 pel per inch scanning resolution in black and white or up to 128 shades of gray, and up to 600 pel per inch output resolution. Its open flatbed design accommodates pages, bound books and magazines.

Imaging is hot today, and the IBM PageScanner provides the high-quality gray scale support needed to give you the flexibility that full-function desktop publishing offers.

If you want to scan text, add IBM TextReader Optical Character Recognition software to scan typed letters, news releases, and input from a variety of sources. This is a great alternative to re-entering text, and can be used in law offices, for example, to read in lengthy typed documents such as leases and wills, for easy revision with a word processor.

Add IBM ImagEdit Version 2 image scanning software, and you can touch up and annotate photographic and drawn images. Both TextReader and ImagEdit run under the Microsoft Windows environment and have familiar icon-based user interfaces similar to those used by PageMaker. Once you've used all these desktop publishing elements together, you"ll never go back to your old ways of producing documents!

With the IBM Personal Page Printer II and all the related products for publishing and typographic quality printing on an IBM platform, you can be assured of the growth potential, quality support, and the leading edge publishing solutions that will continue to bring the benefits of desktop publishing technology to all your applications.

IBM Personal Page Printer II   *(4216030)*

θ Intelligent PostScript Laser Printer
θ For Desktop Publishing
θ For General Business Applications--word processing, spreadsheet, data base, graphics
θ 43 typestyles available at all times
θ Prints on cut-sheet paper, letterheads, colored paper, transparencies, adhesive labels, envelopes
θ Connects to parallel (LPT), serial (COM), or AppleTalk port
θ High speed parallel driver supplied for DOS environment
θ Shareable via standard devices, IBM and other local area networks
θ HP LaserJet Plus and IBM Proprinter emulation
θ 16.67 Mhz Motorola 68000 microprocessor with 2Mb of RAM
θ Optional 2 Mb memory expansion for addtional font storage
θ Print speed of up to 6 pages per minute

IBM Personal Pageprinter   *(4216020)*

θ Intelligence in Personal Pageprinter Adapter Program 1.3.1 which is loaded to a card located in the system unit
θ For Desktop Publishing
θ For General Business Applications--word processing, spreadsheet, data base, graphics
θ 43 typestyles available: 13 at start-up, others downloaded as needed
θ Prints on cut-sheet paper, letterheads, colored paper, transparencies, adhesive labels, envelopes
θ Connects to video (EPT) port
θ Shareable via IBM local area networks
θ IBM Proprinter emulation
θ 10 Mhz Motorola 68000 microprocessor with 2Mb of RAM
θ Print speed of up to 6 pages per minute
θ Available as printer subsystem, Option SolutionPacs, System SolutionPac

Desktop Publishing and PostScript Laser Printing
Printer Selection

Which IBM PostScript laser printer best meets the customer's needs?

This table lists the characteristics of the two IBM PostScript laser printers and provides a basis for their selection.

Printer Characteristics	Personal Pageprinter (4216-020) with Pageprinter Adapter and Adapter Program 1.3.1	Personal Page Printer II (4216-030)
Printer Intelligence	On Adapter card in system unit, loaded with adapter program	In printer
Microprocessor	10 Mhz Motorola 68000	16.67 Mhz Motorola 68000
Memory Expansion	N/A	2 Mb
Fonts		
No.of type styles	43	43
Type style availability	13 resident; others downloaded automatically as needed	43 resident
Connectivity		
Parallel Port (LPT)	No	Yes
Serial Port (COM)	No	Yes
Video Port (EPT)	Yes	No
AppleTalk Port	No	Yes
High-speed Parallel Driver	No	Yes
Printer Sharing		
Manual (A-B) Switch	No	Yes
Programmed Switching	via supplied utility	Yes
IBM LAN environments	Yes	Yes
Other LAN environments	No	Yes
Emulation Capability		
HP LaserJet Plus (PCL)	Yes	Yes
IBM Proprinter XL	Yes	Yes
Printing Mode Reset	Automatic	Manual
Rated Speed, pages/minute	6	6
Availability in SolutionPacs	Yes	No

IBM 3119 Scanner and Cable
Part # 94X2410

PageScanner Adapter/A

Cable

PS/S Model 50 or Higher
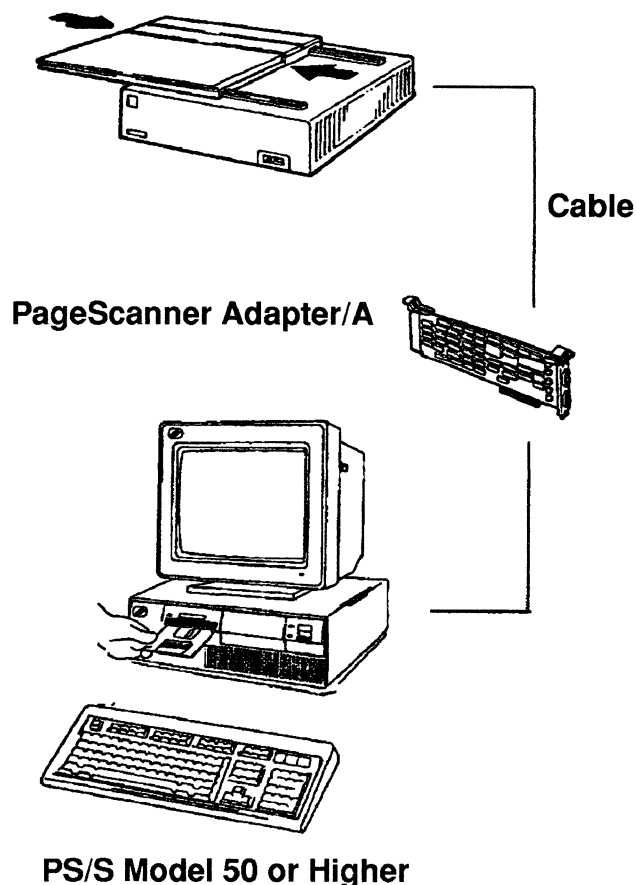
PS/2 Model 50 or higher

300 x300 dpi resolution

128 shades of gray (8bit)

Flatbed Design

Variable Output up to 600 dpi

Partial Page Scanning

Scaling

Darkness and Contrast Adjustment

Fast Minmum Scan time
(14 or 28 seconds per page)

Getting Started Software and Adapter/A
are included Part #94X2415

IBM 3119 PageScanner Convenience Kit
Part # 94X2520 (Incl. P/N 94X2410 & 94X2415)

Additional Software Support:

IBM Imagedit Version 2.0
Advanced editing: flipping, rotating, cutting and pasting functions
Text and graphics annotation
Part # 75X3255 (Dual Media)

IBM TextReader
Mixed Font Recognition
RFT and ASCII Output
Part # 81X6801 (3.5")
Part # 81X6821 (5.25")

	IBM Part No.	Kit Includes:	Minimum System Reqiurements
IBM Publishing System Option/A Kit (for IBM PS/2)	75X8275	PS/2 Adapter Card, 4216 Personal Pageprinter, PS/2 Mouse, Publishing Software* (3.5 media), User's Guides, 90-day Support	IBM PS/2 Mod 50 and Higher 8513 or 8514 VGA or 8507 Display DOS Version 3.3+
IBM Publishing System Option Kit (for IBM PC AT & XT w/5.25" Diskette Drives)	75X8210	PC Adapter Card, 4216 Personal Pageprinter, Publishing Software* (5.25" media), User's Guides, 90-day Support	IBM PC AT or IBM PC XT 286, Enhanced Color Display, EGA Card w/128K, 640K Memory, Compatible Mouse, DOS version 3.3+
IBM Publishing System Option Kit (for IBM PS/2 Model 30-021 w/3.55" Diskette Drives)	75X8274	PC Adapter Card 4216 Personal Pageprinter, Publishing Software* (3.5" media), User's Guides, 90-day Support	IBM PS/2 Model 30-021, 8512 (B&W) or 8513 Or 8507 (Color) Display, PS/2 Mouse DOS version 3.3+
IBM Solution Pac Personal Publishing System (w/Color Display)	75X8269	IBM PS/2 Model 30-021 8513 Color Display, PS/2 Mouse, DOS version 3.3+, Installation Diskette, PC Adapter Card, 4216 Personal Pageprinter, Publishing Software* (3.5" media), User's Guides, 90-day Support	
IBM Solution Pac Personal Publishing System (w/Monochrome Display)	75X8268	(Same as above #75X8269 but with 8512 Monochrome Display)	

* Software includes: IBM Pageprinter Adapter Program (appropriate version depending on Pageprinter Adapter Card), Aldus Pagemaker and Microsoft Windows with Write and Paint.

IBM Desktop Publishing

	IBM Part No.	Kit Includes:	Minimum System Reqiurements
IBM Interleaf Publishing Progam	25F5911	3.5" media; fully intergrated software package which can be used to create documents with multiple type fonts, complex formats, data driven charts, complex graphics and scanned images[1]	IBM PS/2 Mod 50 and Higher with 6Mb RAM & 40Mb Fixed Disk Drive, PS/2 Mouse 8513 or 8514 VGA or 8507 Display, DOS Version 3.3+ IBM 4216-020 or 030 & Adapter & Program
IBM Interleaf Publisher Data Export	06F2458	Software package allows conversion of ASCII Interleaf documents into documents processable by the Publishing System Bookmaster Program on the IBM 9370 or S/370[1]	(Same as above)

IBM Personal Pageprinter Subsystem[2]

Configured for PS/2 Model 50, 60, 70, or 80	07F4363
Confidured for PS/2 Model 30	07F4361
Configured for IBM PC AT or IBM PC XT 286	07F4362

<u>Supplies:</u>

Toner Cartridge (est. yeild: 4,000 pages)	6190603
Photoconductor Unit (est. yeild: 120,000 pages)	6190604
Cleaning Unit (est. yeild: 40,000 pages)	6190605

[1]Additional Product information and specifications can be found in IBM Programming Announcement Green Letter #NDD 88-186.
[2]All subsystem components are available individually; consult IBM announce letters for part numbers and prices.
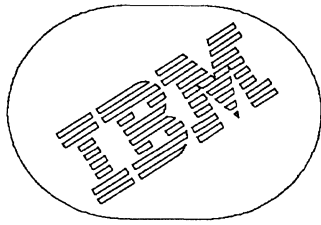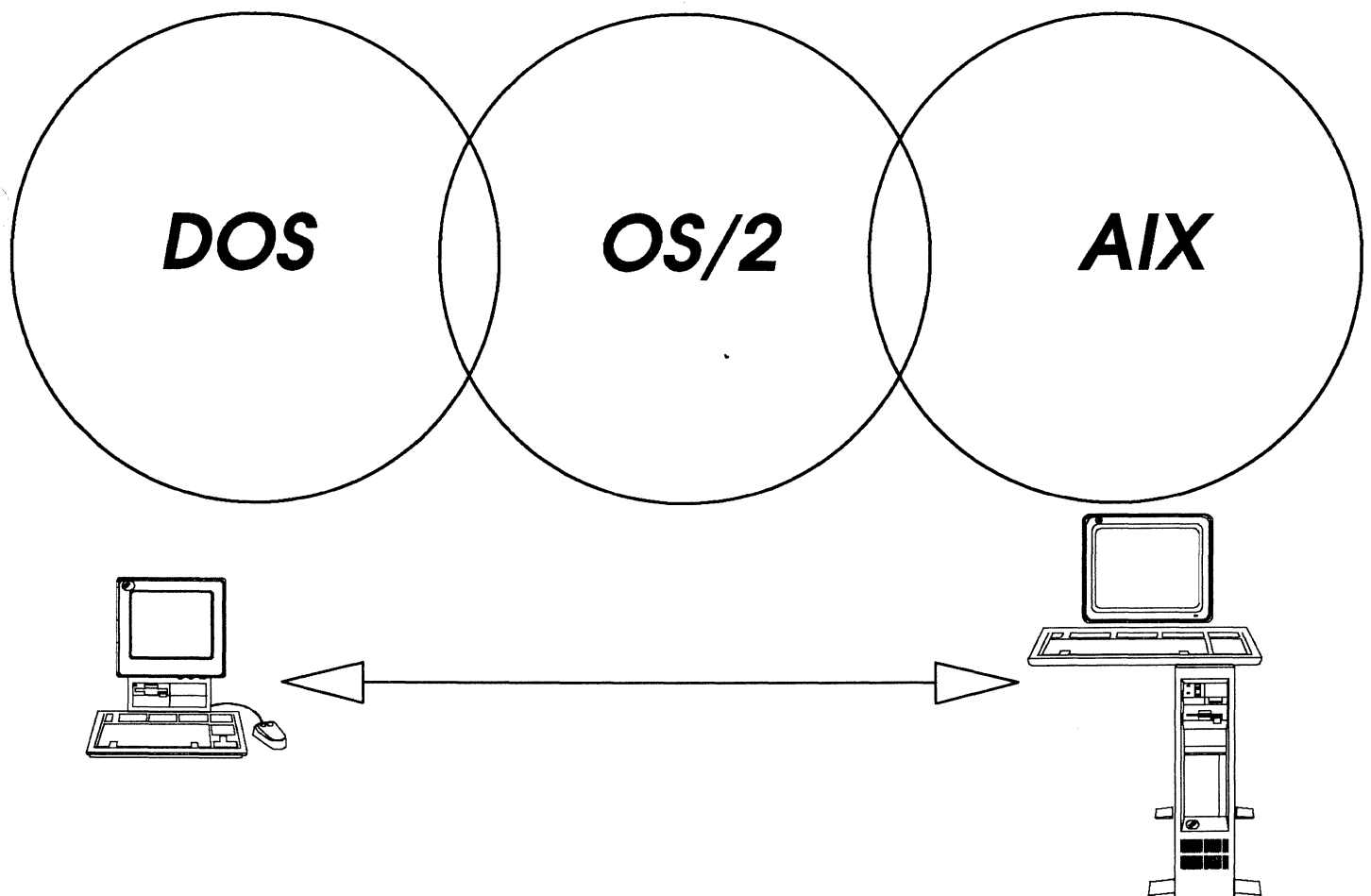
IBM PS/2 Operating Systems

DOS   OS/2   AIX

IBM Disk Operating System (DOS) Version 4.0
The Single-Tasking Operating System of Choice

HIGHLIGHTS

Large Fixed Disk Support
It lets you store files greater than 32 MB. In fact, you can store files that are as large as your PS/2's fixed disk.

Expanded Memory Support
It allows you to address memory above 640KB and run programs written to Expanded Memory Specification (EMS) 4.0.

User Interface
It supplies user-friendly support providing straightforward menus of DOS applications and utilities, and extensive on- line help.

Installation Utility
It offers easy instructions to speed overall installation and help to customize DOS 4.0.

Video and Graphics Support
It provides for new video modes, display of over 25 lines of text and graphics printing.

Extended National Language Support
Menus, messages and publications are available in 14 languages - 11 translated and three versions of English, including US, UK and universal. Oriented language translations and right-to-left language supplements can also be supported.

19 Keyboard Layouts
Support a wide range of business and industry applications for 23 countries/areas. Additionally, layouts are now available for the UK, France and Italy.

Enhanced Warranty and Service
As with IBM Operating System/2™ the no-extra-charge service plan is available foe DOS 4.0 after the three month warranty expires and extends up to 12 months after general availability.

DOS *at a glance*

Version Number	Memory Occupied	System Supported	Key Hardware/ Functions Supported
2.1	24KB	XT™, PC, PCjr.	Small memory systems and applications.
3.0/3.1	36KB	AT^R, XT, PC, PCjr.	IBM PC Network (DOS 3.1), EGA graphics and IBM Color Printer.
3.2	44KB	AT, XT, XT286 PC, PCjr., PC Convertible	IBM Token-Ring Network, 3.5 inch diskettes and drives; IBM Enhanced Keyboard.
3.3	52KB[1]	PS/2, AT, XT XT286, PC, PCjr. PC Convertible	Large partitioned fixed disks files; Extended National Language Support.
4.0	62KB[1]	PS/2, AT, XT XT286, PC, PCjr.	Large non-partitioned fixed disk files; Menu-based user interface; Expanded memory support; Full display and printer support; Extended National Language Support; Enhanced Warranty; Enhanced installation menus.

[1] *May vary depending on system configuration.*

DOS 4.0

Questions And Answers

MEDIA

Q.   Is DOS 4.0 available in 3.5-inch and 5.25-inch media?

A.   Yes, in separate shrink-wrapped packages. DOS 4.0 3.5-inch version contains two 720KB double-sided diskettes. DOS 5.25-inch version contains five 360KB double-sided diskettes.

UPGRADE PROVISIONS

Q.   Can you upgrade existing DOS packages to DOS 4.0?

A.   Yes. Customers may acquire DOS 4.0 (in 3.5-inch or 5.25-inch diskettes) packages as upgrades from all prior levels of DOS (1.0 through 3.30) at their dealers or through their marketing representatives with proof of their license. The upgrade kits are identical to full program packages, but are available as upgrades to those customers who have proof of license of a prior version.

POSITIONING

Q.   How is IBM DOS 4.0 positioned relative to OS/2?

A.   DOS provides significant new function and is the required operating system for the 8086 PS/2 Model 25 and 30, and the IBM PC, XT, and Convertible. DOS, with the many thousands of applications, will also provide an excellent entry single-tasking base system for the 80286- and 80386-based PS/2 Models and the original PC XT/286 and PC AT. The full function, multitasking, database and communications capabilities of OS/2 are a natural and compatible growth path for DOS 4.0 users who outgrow the single-tasking architectural limitations of DOS 4.0. And the new DOS Shell provides an interface similar to OS/2's Presentation Manager which further eases potential migration.

Q.   How does DOS 4.0 differ from 3.3?

A.   DOS 4.0 offers more than 30 new and enhanced commands and utilities while remaining upwardly compatible. It supports the same IBM PC and PS/2 hardware systems except for PCjr. DOS 4.00 is the first release of DOS which carries a program warranty with associated defect service for one year from announcement.

Other Highlights of the DOS 4.0 enhancements over 3.3 include:

- Support of large hardfiles over 32 megabytes that allows a single file to be as large as the media. Conversely, DOS 3.3 requires partitioning of large disk into logical drives of 32 megabytes or less.

- A new DOS Shell provides group, file, and directory services that are user-friendly alternatives to the commands line. The DOS Shell introduces the user to an OS/2-like presentation manager. DOS 3.3 does not provide this menu-driven file organizer and application selector.

- DOS 4.0 supports the use of memory, implemented with the IBM Expanded Memory Adapter and Memory Expansion Option cards, above 640KB by applications written to the Lotus/Intel/Microsoft 4.0 Expanded Memory Specification (EMS). DOS 3.3 requires the function of the IBM Workstation Program to support the IBM Expanded Memory Adapters.

- The DOS Installation procedure (SELECT) has been enhanced with full screen interactive menus to aid the user in configuring the richer function set provided by DOS 4.0 versus 3.3.

- Video/graphics support has been enhanced to provide printing of graphics screens, additional video mode settings, and display of more than 25 lines of text.

- For worldwide users, DOS 4.0 has been translated into 11 languages, and, in addition, three English versions (U.S., U.K., and Universal) are available. DOS 4.0 allows separately available translation supplements for Asia Pacific languages, and provides right-to-left support to separately available Arabic and Hebrew supple ments for these languages. New keyboard ayouts for U.K., France, and Italy are now supported.

HARDFILE SUPPORT

Q. What is large hardfile support?

A. With DOS 4.0, a fixed partition of greater than 32MB can be defined. Prior version of DOS were constrained to a maximum 32MB fixed disk partition size. As a result, files larger than 32MB can now be used with DOS 4.0 without multiple partitions. This has been accomplished by enhancement to the DOS File Allocation Table (FAT) architecture which includes a new addressing format and other mprovements to maintain performance in processing larger file. The ability to install on and utilize currently formatted hardfiles is maintained.

EMS

Q. What is Expanded EMS?

A. DOS 4.0 now provides operating system support for those developers who write applications that require additional memory above the DOS 640KB limit. The application must be written to the programming interfaces required by the public domain Lotus/Intel/Microsoft Expanded Memory Specification 4.0, which is known as LIM 4.0 EMS. Memory above 640KB is then addressed through a combination of a DOS 4.0 EMS device driver and IBM memory cards that contain additional memory. The 80386-based systems emulate these memory cards using their virtual paging capabilities.

In addition to supporting these EMS dependent applications, DOS 4.0 can utilizethese cards/emulation to provide memory relief and associated performance improvement for specific DOS functions.

However, the PS/2 Multifunction Adapter used for expanded memory on the Model 30 286 is not compatible with the LIM EMS 4.0 drivers proviede with DOS 4.0. The AboveDisc 2.0 program (P/N 30F5448) must be used.

MEMORY

Q. How much memory does DOS 4.0 require?

A. Although DOS 4.0 base requires approximately 62KB of memory on a PC AT, it will vary up and down on other personal computer configurations. Using the DOS Shell Extension requires a minimum of 256KB of memory. Systems with a minimum of 512KB memory are recommended for implementation of other DOS 4.0 extensions.

Q. Now that DOS provides memory relief beyond 640KB, what benefits exist to switch to OS/2?

A. OS/2 is designed for those customers who require protected large real or virtual addressing capability and/or priority-based pre-emptive multitasking memory. OS/2 is also designed to exploit the 80286 and 80386 architecture, which includes the MicroChannel. Enhancement of DOS to provide support to EMS applications for memory relief is an interim solution until these applications requiring the large memory capabilities of the high-end processors as provided by OS/2.

WHAT YOU GET

Q. What comes with DOS 4.0?

A. The two full DOS 4.0 packages contain either two 3.5-inch double-sided 720KB) or five 5.25 inch double-sided(360KB) diskettes. Included are the DOS programs (including the DEBUG utility) the DOS commands, the Advanced BASIC Interpreter, and the Line Editor (EDLIN).

The publications in the package are Getting Started with DOS 4.0, and Using DOS 4.0. A DOS Shell Reference Card is included along with the IBM Program License Agreement, Program License information to support warranty and service, a proof of license, and an order form to obtain free Nationa Language keyboard layouts from a fulfillment house. A separate offering, DOS 4.0 Command Reference, is being made available through IBM authorized dealers to provide detailed information for each DOS command and to supplement the Using DOS 4.0 publication.

Q.   Does IBM offer multiple license agreements for DOS 4.0?

A.   Additional Licenses of the Program Package (the rights to make multiple copies) are available. Additional License Upgrades are also available to prior owners. Additional licenses are available through IBM marketing representatives and require volume purchase qualification. The publications Getting Started with DOS 4.0 and Using DOS 4.0 are also separately available in a documentation-only offering for $40 (IBM retail price). This provides a source for supplemental documentation for those customers buying DOS 4.0 Additional Licenses (Right-To -Copy) and are available only from IBM marketing representatives.

Q.   Is the DOS Technical Reference Manual still sold separately?

A.   Yes. The updated DOS Technical Reference and Application Programming Manual, contains one 3.5-inch and one 5.25-inch double-sided diskette, with the following programs: LINKER, DEBUG, EXE2BIN, VDISK.ASM AND LIB. It is available from both IBM Authorized Dealers and IBM marketing representatives and is warranted with associated defect service for one year from the announcement of DOS 4.0. It includes the DOS 4.0 Technical Reference and Programming manual, and a Quick Reference Card, along with the program license agreement, program license information, and proof of license.

WARRANTY & SERVICE

Q.   What kind of warranty is available?

A.   DOS 4.0 and the DOS 4.0 Technical Reference are the first DOS releases to provide a program warranty in addition to a media warranty. The program warranty provides for defect service to customers through registered Service Coordinators who may be dealers, or designated representatives for accounts serviced by IBM. The program warranty is for three months after purchase and the service period for DOS 4.0 will extend for one year after the availability of the product (day of announce). There is no charge for the service.

Q.   What does the warranty provide?

A.   IBM will respond to a request from a registered Service Coordinator to a defect in an unaltered DOS 4.0 by issuing a corrected code, corrected documentation,restriction, a bypass or a refund as determined by IBM. The Statement of Service in the program License Information that comes with DOS 4.0 should be referenced for details on procedures.

Q.   Who are Service Coordinators?

A.   They are the IBM Authorized Dealers, personnel designated by IBM customers, Education Product Coordinator (EPCs) or branch office marketing representatives who are registered to report defects to IBM Central Service via ServiceLine, the electronic online database, and/or via telephone. They are provided a diskette for access to ServiceLine and a Service Coordinator,s Guide to assist them with problem determination and reporting. These registered service coordinators are responsible for assisting customers in determining and reporting suspected problems and receiving corrective service.

Q.   Does the warranty provide all customers with an IBM hotline number?

A.   IBM will support only registered Service Coordinators with telephone assistance in problem diagnosis and resolution. Service Coordinators may call the IBM Support Center at any time ifthey require assistance above that provided by ServiceLine, the electronic online data base.

DOS SHELL

Q.   What is the DOS Shell?

A.   The DOS Shell provides an alternative to the command line A> user interface. It allows start-up of applications, access and processing of files, and hardcopy output of processed data. Help information is provided relevant to the task at hand. These actions are accomplished by straight forward selections from easy-to-use menus using either a mouse or keyboard. The Shell will run in either text or graphics mode and is similar to the OS/2 Presentation Manager. Installation of the DOS Shell is optional.

Q.   Is the DOS Shell based on Microsoft Windows 2.03?

A.   No. It is based on several years of research into user-friendly processing that is consistent with IBM's SAA Common User Access (CUA) specifications.

IBM DOS 4.0 & WINDOWS KIT FOR THE PS/2

Q.   What is it?

A.   The IBM DOS 4.00 & Windows Kit for PS/2 is a set of software tools for fixed disk versions of the PS/2 Models 25, 30, 50 and 60 that provides an easy-to-use environment for creating composite documents, included illustrations, graphs, and mathematical formulas. The Kit consists of DOS 4.00, Microsoft Windows/286, a comprehensive online tutorial, graph- and formula-editing programs, a spellchecking program, an installation and user,s guide, and an installation program. Microsoft Windows/286 includes a word-processing program, a drawing program, a cardfile program, and numerous other desktop programs.

OTHER

Q.   Is this the last DOS product now that OS/2 is entering its second year as the personal computer operating system?

A.   IBM DOS 4.0 is the 9th release of DOS and is the second developed by IBM. It is the primary operating system for 8086 and 8088 processors. IBM will continue to enhance DOS to protect customer's investment in the large base of low-end processors and applications, and to support IBM low-end processors such as the PS/2 Models 25, 30 and 30 286 that are marketed.

Q.   Can customers still buy DOS 3.3 now that DOS 4.0 is available?

A.   Although DOS 4.0 is an upwardly compatible enhancement, DOS 3.3 will continue to be marketed for those customers whose migration plans do not require the additional DOS 4.0 function.

IBM Operating System/2
Full Function, Multitasking Operating System with Database and Communications

HIGHLIGHTS

80286/80386 Architecture Support
Helps you create and run sophisticated applications that take advantage of IBM hardware built with 80286 and 80386 microprocessors.

16MB Addressable Memory Support
Enables developers/users to take full advantage of memory beyond 640KB (up to 16MB) for applications and data. This means that functionally such applications that process large amounts of data are now usable.

Concurrent Processing of Multiple Applications (Multiprogramming/Multitasking)
Allow the user to preform many operations concurrently, enhancing productivity and user convenience.

Enhanced Ease-of-Use Facilities
Quicker learning for computer novices, simplified operations for beginners and experienced users alike.

Presentation Manager
Provides windowing and graphics functions along with a consistent interface for applications. Improved productivity, greater transfer of skills, faster, corner application development.

Dos Compatibility
Makes it possible to continue using many DOS-based programs unchanged. Protects investment, and smooths transition from DOS to OS/2.

Contextual On-Line Help
Gives you assistance to complete the task at hand.

Communications Manager
Puts comprehensive communications capabilities in a single computer. Flexibility to receive and send data through multiple concurrent communications over a wide range of connections.

Data Base Manager
Offers facilities for developing and working with a relational database.

SAA Participation
Provides guidelines for consistency across applications and system environments

Enhanced Warranty and Service
Provide 3-month warranty coverage and a 12-month free service plan. Protects OS/2 investment, increase reliability, availability and serviceability

Personal System/2 Operating Systems

OS/2 STANDARD EDITION Version 1.1	Available 10/88 - $340
	Exceeds 640K memory limit, up to 16MB
	Flexibility of Virtual Memory
	Run multiple programs or program tasks

	Presentation Manager
	    Enhanced Graphics
	    Windowing

	On line contextual Help
	Large file support (greater than 32MB)
	DOS compatibility
	Provide S.A.A. facilities for Common User Access Common Programming Interface for compilers
	Full Screen Text Editor
	Enhanced Spooler
OS/2 EXTENDED EDITION Version 1.1	Available 11/88 - $830

	Includes all Facilities of Standard Edition 1.1
	    PLUS
	Communications
	    3270 Emulation (SDLC/DFT/Token Ring)
	    3101 Emulation (ASYNC)
	    DEC VT100 Emulation (ASYNC)
	    File Transfer (SDLC & ASYNC)
	    APPC (LU6.2)

	Programming Interfaces: APPC, SRPI, ACDI
	Multiple Concurrent Communications
	Full Relational Database with Structured Query Language
	Provide S.A.A. Facilities for Common Communications, support
	Local Area Network Support

IBM Operating System/2
Applications

The OS/2 application base is expanding dynamically: every month new applications are announced or become available on the market.

In order to provide information on these exciting offerings IBM and Microsoft have created an Application Database that you can consult and find the most current listings of products. These listings are available through the following facilities:

Facility	Audience
Customer Support System (CSS)	IBM Authorized Dealers
ASKINFO	Customer Technical Coordinators
IBMLINK	Customer Technical Coordinators
EQUAL	IBM Internal Users
ONLINE	Microsoft Customers

Atlanta Electronic Bulletin Board: (404) 988-2913

The Application Database is based on information provided by the companies listed as the sources for the applications. Each company has certified that is marketing or intends to market the listed application(s) that run in the OS/2 protect mode.

IBM and Microsoft have not evaluated the listed applications of other companies, and do not recommend or endorse them. Users should contact the company directly to verify product function, prerequisites, price, availability and suitability for the user's purposes.

The information in the Application Database is provided "AS IS" without any kind, either expressed or implied, warranties of merchantability or fitness for a particular purpose. Neither IBM nor Microsoft is a party to any agreement or warranties relating to products of other companies.

The information in the Application Database could include inaccuracies or typographical errors. IBM and Microsoft may change the contents without notice.

There are other companies whose products are not included in the Database. The procedure to apply for inclusion in the Operating System/2 application database is to submit a written request to :

IBM Corporation
AG-ZIP 4607
P.O. Box 1328
Boca Raton, FL 33429-1328

IBM PS/2 RPG II Application Platform
IBM PS/2 RPG II Application Toolkit

HIGHLIGHTS

* Provides the capability to convert, develop, and execute System/36 RPG II applications on PS/2-OS/2 platform in a multi-user operating environment.

* Establishes a cost-effective entry into the world of traditional data processing systems...addressing the needs of small business and small departments or locations within medium and large businesses.

Two separately ordered software packages are provided:

1) IBM PS/2 RPG II APPLICATION PLATFORM (P/N 6280294)

* Provides a multi-user execution environment for RPG II applications that have been converted by the RPG II Toolkit to run on a PS/2 with OS/2.

* It offers a subset of Operation Control Language (OCL) and key System/36 utilities.

* A terminal manager supports up to 8 serially attached workstations, providing multiple end users with concurrent access to RPG II applications executing on the PS/2 central processor.

* Attached workstations can be any mix of the following devices:

   - 3151 ASCII Display (Model 3X/4X) with the Cartridge for Multi-User System
   - Attachment (P/N 09F6151 or FC #8005).

   - Any PS/2 Model with the Enhanced Keyboard

   - Personal Computer AT^R Model 339 or Personal Computer XT™ Model 286 with Enhanced Keyboards.

Attached PS/2's and PC's can execute stand-alone DOS 3.3 or OS/2 applications (such as word processing and spreadsheets) using a hotkey capability from the RPG application.

2) IBM RPG II APPLICATION TOOLKIT (P/N 6280293)

Provides the RPG II Compiler for converting existing RPG II applications or developing new ones to run on IBM Personal System/2.

In addition to the compiler, the RPG II Toolkit includes a Screen Design Aid (SDA) and Screen Format Generator (SFGR) for designing, creating and processing display format specifications.

RPG II Auto Report is supported, as is the Date File Utility (DFU) list creation.

RPG T specifications (for telecommunications) are not supported; however, batch transmission of files is provided by OS/2 Extended Edition 1.0.

Software prerequisites for the RPG II Toolkit are OS/2 Standard Edition 1.0 or OS/2 Extended Edition 1.0 and the PS/2 RPG II Application Platform.

Personal System/2 Operating Systems

SUMMARY OF HARDWARE AND SOFTWARE
SUPPORTED AND/OR REQUIRED FOR THE
PS/2 RPG II APPLICATION PLATFORM

System supported

Personal System/2 Models 50 and above capable of running OS/2; the attached PS/2 display, any model, serves as the system console and may also be used as a user workstation.

Memory Requirements

Minimum memory requirement is 1MB, IN ADDITION to OS/2 memory requirement.

Maximum required to support 8 attached workstations is 2.5MB OVER OS/2 requirements.

Software Required

OS/2 Standard Edition 1.0 or OS/2 Extended Edition 1.0 is required on the PS/2
control processor.

Printers Supported

IBM Proprinter™, all models; IBM 4224 Printer, Models 3XX (Proprinter Compatible Model).

Attached Workstations Supported

IBM 3151 ASCII Display Models 3X or 4X with the Cartridge for Multi-User System Attachment. Any IBM PS/2 with IBM Enhanced Keyboard; Personal Computer AT Model 339 and Personal Computer XT Model 286 with IBM Enhanced Keyboards.

Attachment Support

PS/2 Serial Port (RS232-C); IBM PS/2 Dual Async Adapter/A (RS232-C); 1 supported IBM Realtime Interface Co-Processor Multiport/2 Adapter (RS232-C/RS422-A). TMProprinter is a trademark of the International Business Machines Corporation.

Questions and Answers

Installation/Configuration

Q. Must I have a PS/2 'host' or can I use a PC/AT or PC/XT 286?

A. The host system must be a PS/2 capable of running OS/2. The PC/AT 339 and the PC/XT 286, both with the Enhanced Keyboard may be used as a workstation using the Independent Workstation (IW) Program shipped with the RPG II Platform. Any PS/2, with Enhanced Keyboard, may also be used as a workstation using the IW Program.

Q. Must OS/2 be installed or can I use DOS on the host PS/2?

A. OS/2 Standard Edition 1.0 or OS/2 Extended Edition 1.0 must be installed on the host PS/2. An attached PS/2 or PC, as an independent workstation, may use either OS/2 or DOS; you can 'hotkey' out of the RPG session to the OS/2 or DOS session on the attached PS/2 or PC.

Q. Will the RPG II Platform run under the OS/2 Presentation Manager?

A. The RPG II Platform will not run under the OS/2 Presentation Manager but will run in an independent full screen session.

Q. How many users are supported?

A. Up to eight workstation users are supported via attached 3151 ASCII Displays or the attached PS/2 or PC workstations. In addition, the display associated with the host PS/2, which serves as the system console, can also be used as a user workstation. Printers DO NOT count as user workstations. Response time and performance of the workstations will depend on the host PS/2 configuration and theconcurrent use of the applications.

Q. How many printers are supported?

A. Printer support is via the OS/2 spooler. Two (2) printers are supported on the host PS/2 - one via the Parallel Port and one via the Serial Port, each via RS232-C and RS422-A interfaces. If the Multiport/2 Adapter is used, no other terminal connections are supported for attaching user workstations.

Q. Is there any limit on the length of cables between a workstation and the host PS/2?

A. The RS232-C interface supports a local cable attachment of 50 feet except on the Multiport/2 Adapter, where the limitation is 40 feet. The RS422-A interfacesupports a cable attachment of up to 4000 feet.

Q. How do I connect workstations to the PS/2 host?

A. There are three ways to attach terminals:

1) One terminal via the standard Serial port (RS232-C) on the PS/2.
2) Two terminals via the Dual Async Adapter/A (RS232-C). Only one (1) Dual Async Adapter/A is supported per 'host' PS/2.
3) Up to 8 terminals via the Realtime Interface Co-Processor Multiport/2 Adapter. This adapter supports up to 8 terminals via the RS232-C interface or up to 4 each via RS232-C and RS422-A interfaces. If the Multiport/2 Adapter is used, no other terminal connections are supported for attaching user workstations.

Q. Is there any limit on the length of cables between a workstation and the host PS/2?

A. The RS232-C interface supports a local cable attachment of 50 feet except on the Multiport/2 Adapter, where the limitation is 40 feet. The RS422-A interface supports a cable attachment of up to 4000 feet.

SYSTEM/36 COMPATIBILITY

Q.   Can I run RPG II programs developed on the PS/2 on the System/36?

A.   Yes, after recompiling. In fact, the RPG II Toolkit can be used as a standalone programmer development system. Data file conversion from the PS/2 ASCII format to the System/36 EBCDIC format is provided.

Q.   Is the PS/2 RPG II compatible with the System/36 RPG II?

A.   There are some differences. The major ones are:
1) MRT's run as SRT's on PS/2.
2) The 'T' specification (Telecommunications) is not supported.
3) Any System/36 Assembler subroutines must be rewritten for PS/2 Assembler.

Q.   Does the 64K program size limit for RPG II programs exist on the PS/2?

A.   Yes; to maintain compatibility back to a System/36, the RPG II program size on the PS/2 is the same as on the System/36.

Q.   Can I write communications programs using Interactive Communication Feature?

A.   No communications are supported by the RPG II Platform. All communications required OS/2 Extended Edition 1.0 or 1.1 facilities. These facilities are not accessible through the RPG II Platform application.

Q.   Is record locking provided by RPG II Platform?
A.   Yes, data management is implemented on the PS/2 in the same manner as the System/36.

Q.   Does PS/2 RPG II conform to SAA?

A.   RPG II is currently not an SAA language.

Q.   Does the PS/2 RPG II Application Platform on PS/2 replace the low end model of the System/36, the Model 5363?

A.   No. The RPG II Platform simply provides a way to make the RPG II business solutions of the System/36 available on the PS/2 as a standalone multiuser system. There are major functional differences that must be considered in evaluating the customer requirements. However, the PS/2 RPG II Application Platform system can be considered the low-cost entry into the System/36 family, including the 5363, since the RPG II business solutions are upward migratable to the System/36.

Q.   If I have an RPG II program on a System/36, how do I get it to run on a PS/2?

A.   Source code is required for compiling using the RPG II Toolkit. It is the user,s responsibility to obtain the rights and licenses required to run the application on the RPG II Platform.

PS/2 RPG II Application Platform and AIX PS/2

The AIX PS/2 Operating System provides both a shared logic and shared resource (LAN) multiuser system capability on PS/2 (386 processors only) based on the UNIX[R] operating system. It offers very rich functional capability for engineering, scientific, and other compute intensive work.

The advantages that the RPG II Platform solution may have over an AIX PS/2 solution are:

1)   There are thousands of RPG commercial oriented applications available today, providing a wide base of business solutions that can be ported to the PS/2 system. RPG is a powerful, easy to use programming language designed for business applications. While there are also commercial oriented UNIX applications available, these are generally written in a variety of other programming languages.

2)   RPG II Platform and RPG II Toolkit software can operate on PS/2 Models 50 and higher (286 and 386 processors), while AIX PS/2 operates on PS/2 386 processors only.

3)   The System/36 affinity of the RPG II Platform solution may provide a more desirable growth path for the customer, especially if that customer has System/36 systems installed in other locations.

AIX PS/2, however, offers extensive functions including:

1)   Supports 16 concurrent users, while the RPG II Platform supports up to eight (nine if using the system console also as a user workstation). AIX PS/2 supports a wider range of attached device types as well.

2)   Extensive peer-to-peer and peer-to-host connectivity capabilities, including 3270 emulation, file transfer, and local area networks.

3)   Growth path to the RT/PC or System/370 processors (9370, 4381, 3090) with AIX operating systems.

Small business will more than likely make a choice based on the best application solution and support for their business needs, regardless of the operating system environment. Large accounts will generally be more concerned about the growth path and consistency with larger systems within the enterprise.

[R]UNIX is a registered trademark of AT&T.

IBM AIX PS/2 Operating System

A UNIX operating environment for the IBM Personal System/2

The AIX (Advanced Interactive Executive) PS/2 Operating System is a member of the IBM AIX family of operating systems, and it runs on 386-based PS/2 systems.

HIGHLIGHTS

* UNIX System V.2 compatible

- Multi-user, multitasking, virtual memory environment (up to 16 users)
- Hierarchical file system
- Bourne Shell
- Powerful editors, including vi
- C and VS FORTRAN compilers
- A symbolic debugger (sdb)
- Program development tools
- Text processing and document preparation tools
- UNIX networking facilities

Berkeley 4.3 Functions

* IBM enhancements
  - Virtual storage support
  - Enhanced file management
  - Dynamic configuration facilities
  - DOS support for multiple users
  - Multiple virtual terminal support
  - Multiple interactive session management
  - National Language support

Connectivity Facilities

The AIX PS/2 Operating System provides a wide range of connectivity facilities that support data and program exchange and sharing for peer-to-peer and workstation to host environments. AIX PS/2 supports the following products:

- * AIX PS/2 Distributed Services
- * AIX PS/2 Network File System (NFS)
- * AIX PS/2 Transparent Computing Facility (TCF)
- * AIX PS/2 Workstation Host Interface Program
- * AIX PS/2 Transmission Control Protocol/Internet Protocol (TCP/IP)
- * AIX PS/2 INmail/INed/INnet/FTP
- * AIX PS/2 X.25

Compilers

* AIX PS/2 VS FORTRAN
* AIX PS/2 VS Pascal
* AIX PS/2 C Language

Network Transparent Windowing System

* AIX PS/2 X-Windows

Databases

* ORACLE Relational Data Base Management System
* INGRES Relational Data Base Management System

System Application Architecture (SAA) Relationship

To enhance communication with SAA systems, it is IBM intent that AIX will provide appropriate interconnections protocols between AIX systems and SAA systems.

To enhance porting of applications between AIX and SAA environments, the AIX Family Definition will provide C and FORTRAN interfaces that are compatible with the SAA definition of these languages.

As the AIX Family Definition and System Application Architecture evolve, IBM will expand the interconnect capabilities and the compatible programming interfaces. Where conflict exist between AIX and SAA, priority will be given to maintaining consistency in the UNIX environment.

GENERAL AVAILABILITY MARCH 1989 :

Part Number	Description
11F8182	IBM AIX PS/2 Operating System
11F8194	IBM AIX PS/2 Operating System Extensions
11F8181	IBM AIX PS/2 DOS Merge
11F8191	IBM AIX PS/2 Usability Services
11F8190	IBM AIX PS/2 Text Formatting System
11F8186	IBM AIX PS/2 X-Windows
11F8188	IBM AIX PS/2 VS FORTRAN
11F8187	IBM AIX PS/2 VS Pascal
11F8189	IBM AIX PS/2 C
11F8180	IBM AIX PS/2 Application Development Toolkit
11F8183	IBM AIX PS/2 Workstation Host Interface Prog.
11F8185	IBM AIX PS/2 Transmission Control Protocol/Internet Protocol

GENERAL AVAILABILITY JUNE 1989 :

Part Number	Description
11F8207	ORACLE DBMS
11F8213	SQL*Plus
11F8212	SQL*Forms
11F8214	SQL*Menu
11F8208	SQL*Net
11F8209	SQL*Net TCP/IP Protocol Device Driver
11F8218	Pro*C Programming Interface
11F8220	Pro*FORTRAN Programming Interface
11F8269	INGRES DBMS
11F8270	INGRES/APPLICATIONS
11F8274	Embedded SQL Preprocessor for FORTRAN
11F8275	Embedded SQL Preprocessor for Pascal
11F8271	INGRES/NET
11F8272	INGRES/STAR
11F8273	INGRES/PCLINK

GENERAL AVAILABILITY 4th QUARTER 1989 :

| Part Number	Description
11F8193	IBM AIX PS/2 Network File System (NFS)
11F8196	IBM AIX PS/2 Transparent Computing Facility (TCF)
27F4254	IBM AIX PS/2 X.25

GENERAL AVAILABILITY 2nd QUARTER 1990 :

Part Number	Description
11F8195	IBM AIX PS/2 Distributed Services

AIX FAMILY OF PRODUCTS HIGHLIGHTS

|		
Growth Over Widest Range of Processors	The AIX family of products supports the IBM PS/2 via the AIX PS/2 operating system. The 386 based PS/2 at the low end, the RT PC, 43XX and 9370 in the mid-range, and the IBM 3090 with VF at the high end.	Because of the consistent application program interface an application can be initially implemented at the IBM PS/2 level and ported to other hardware platforms as user's requirements grow.
Distributed Processing and Distributed Data	There are three products for processing distributed data: X-Windows, Network File System (NFS) and Distributed Services (DS). Transparent Computing Facility (TCF) is available for AIX/370 and AIX PS/2.	Distributed services provide the ability to support transparent distributed data high performance and adminstrative flexibility. TCF can manage a clutter of processors while providing end users a single system image.
OEM Connectivity via TCP/IP for Ethernet and Token Ring LANs	TCP/IP, the communications support for the AIX family of products, is an industry standard connectivity offering that will enable those OEM systems to attach to IBM processors and support terminal networks that communicate via Token Ring as well. NFS and X-Windows both run on top of the TCP/IP protocols and provide distributed file service and windowing, respectively, in connections with OEM and AIX machines.	TCP/IP, X - Windows, and NFS allow entry into existing networks of OEM machines.
Full BSD 4.3 and System V.2 Compatibility	The AIX family of products are compatible with versions of BSD (University of California at Berkeley) and AT&T's System V and includes IBM's added value extensions.	Consistency with all of these standards makes IBM's AIX products richer in function, attractive to a broad range of users, and compatible with many UNIX applications.
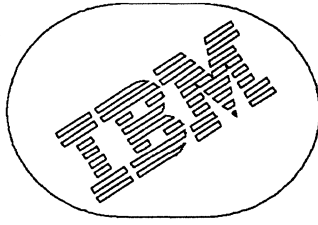
Personal System/2 & Printer Sales Advisor

IBM PS/2 Single Unit Prices

International Business Machines Corporation
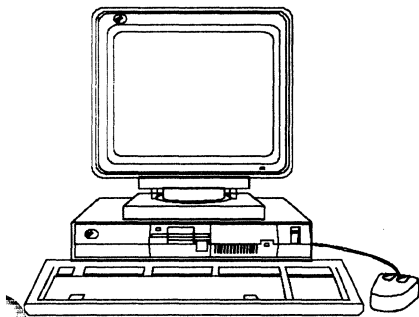
IBM Personal System/2 Single Unit Prices

IBM PS/2 *HARDWARE* PRICE LIST - SORTED BY CATEGORIES

May 1989 Edition

"SINGLE UNIT PRICES" (SUP) reflect the price for single units (Machines, or One-time charge for licensed programs or non-IBM programs) purchased directly from IBM and are subject to change without notice. These prices are for informational purposes only, and shall not limit in any way the Remarketers' ability to set their own prices and charges for IBM products.

IBM Personal System/2 System Units

	Model		IBM MACH/MOD FC#	IBM PART #	DEALER PART #	SUP	
	IBM PS/2-25	Mono, 1-720KB, Space KB	8525-001	8525001	_____	$1,350.00	_____
	IBM PS/2-25	Color, 1-720 KB, Space KB	8525-004	8525004	_____	$1,695.00	_____
	IBM PS/2-25	Mono, 1-720KB, Enh. KB	8525-G01	8525G01	_____	$1,395.00	_____
	IBM PS/2-25	Color, 1-720 KB, Enh. KB	8525-G04	8525G04	_____	$1,740.00	_____
	IBM PS/2-25	Mono, 1-720KB,Enh.KB, LAN	8525-L01	8525L01	_____	$2,139.00	_____
	IBM PS/2-25	Color, 1-720 KB,Enh.KB, LAN	8525-L04	8525L04	_____	$2,484.00	_____
☛	IBM PS/2-30	640KB, 1-720KB	8530-001	8530001	_____	$1,695.00	_____
	IBM PS/2-30	640KB, 2-720KB	8530-002	8530002	_____	$1,775.00	_____
	IBM PS/2-30	640KB, 1-720KB, 1-20MB	8530-021	8530021	_____	$2,395.00	_____
	IBM PS/2-30 286	512KB, 1-1.44MB	8530-E01	8530E01	_____	$1,995.00	_____
	IBM PS/2-30 286	512KB, 1-1.44MB, 1-20MB	8530-E21	8530E21	_____	$2,595.00	_____
	IBM PS/2-50	1MB, 1-1.44MB, 1-20MB	8550-021	8550021	_____	$3,595.00	_____
$$	IBM PS/2-50Z	1MB, 1-1.44MB, 1-30MB	8550-031	8550031	_____	$3,250.00	_____
$$	IBM PS/2-50Z	1MB, 1-1.44MB, 1-60MB	8550-061	8550061	_____	$3,650.00	_____
☛	IBM PS/2-55SX	1MB, 1-1.44MB, 1-30MB	8555-031	8555031	_____	$3,895.00	_____
☛	IBM PS/2-55SX	1MB, 1-1.44MB, 1-60MB	8555-061	8555061	_____	$4,295.00	_____
	IBM PS/2-60	1MB, 1-1.44MB, 1-44MB	8560-041	8560041	_____	$5,295.00	_____
	IBM PS/2-60	1MB, 1-1.44MB, 1-70MB	8560-071	8560071	_____	$5,795.00	_____
☛	IBM PS/2-P70 386	4MB, 1-1.44MB, 1-60MB	8573-061	8573061	_____	$7,695.00	_____
☛	IBM PS/2-P70 386	4MB, 1-1.44MB, 1-120MB	8573-121	8573121	_____	$8,295.00	_____
$$	IBM PS/2-70 386	1MB,1-1.44MB,1-60MB	8570-E61	8570E61	_____	$5,495.00	_____
	IBM PS/2-70 386	2MB,1-1.44MB,1-120MB	8570-121	8570121	_____	$7,995.00	_____
	IBM PS/2-70 386	2MB,1-1.44MB,1-120MB,Mem Cache	8570-A21	8570A21	_____	$11,295.00	_____
	IBM PS/2-80 386	1MB, 1-1.44MB, 1-44MB	8580-041	8580041	_____	$6,995.00	_____
	IBM PS/2-80 386	2MB, 1-1.44MB, 1-70MB	8580-071	8580071	_____	$7,995.00	_____
	IBM PS/2-80 386	2MB, 1-1.44MB, 1-115MB	8580-111	8580111	_____	$8,995.00	_____
	IBM PS/2-80 386	2MB, 1-1.44MB, 1-314MB	8580-311	8580311	_____	$11,995.00	_____

IBM Personal System/2 Displays

Model	IBM MACH/MOD FC#	IBM PART #	DEALER PART #	SUP	
Color Display Stand (for 8512 Display)	5004	1501215	_____	$36.00	_____
Display Adapter	4050	1887744	_____	$624.00	_____
Display Adapter 8514/A	4054	1887972	_____	$1,350.00	_____
8514 Memory Expansion Kit	4081	1887989	_____	$283.00	_____
IBM 8507 19" Mono	8507-001	6247810	_____	$865.00	_____
IBM 8503 12" Mono	8503-001	8503001	_____	$275.00	_____
IBM 8512 14" Color	8512-001	8512001	_____	$623.00	_____
IBM 8513 12" Color	8513-001	8513001	_____	$750.00	_____
IBM 8514 16" Color	8514-001	8514001	_____	$1,620.00	_____

IBM PS/2 *HARDWARE* PRICE LIST

IBM Personal Printers and Desktop Publishing

Model	IBM MACH/MOD FC#	IBM PART #	DEALER PART #	SUP	
IBM Interleaf Publisher Data Export	--	06F2458	_____	$500.00	_____
IBM Personal Pageprinter Adapter Program V 1.3 (3.5")	--	07F4349	_____	$892.00	_____
IBM Personal Pageprinter Adapter Program V 1.3 (5.25")	--	07F4350	_____	$892.00	_____
IBM Personal Pageprinter Sub-system (3.5")	--	07F4361	_____	$5,347.00	_____
IBM Personal Pageprinter Sub-system (5.25")	--	07F4362	_____	$5,347.00	_____
IBM Personal Pageprinter Sub-system/A	--	07F4363	_____	$5,347.00	_____
IBM 4202 Proprinter XL Ribbon	--	1040150	_____	$14.25	_____
IBM 4208 Proprinter XL24 Ribbon	--	1040414	_____	$17.50	_____
IBM 4207 Proprinter X24 Ribbon	--	1040475	_____	$12.50	_____
IBM Dual Drawer Sheet Feed	8077	1058077	_____	$849.00	_____
IBM Quietwriter Mod2 Cleaning Cartrige	--	1299633	_____	$6.10	_____
IBM 5201 Quietwriter Mod2 Non-Correcting Ribbon	--	1299790	_____	$13.25	_____
IBM 5202 Quietwriter III High Yield Ribbon	--	1299933	_____	$19.25	_____
IBM Quietwriter III Printhead	--	1318154	_____	$38.50	_____
IBM Pinwheel Forms Feed	8214	1318214	_____	$103.00	_____
IBM Word Processing Package	8459	1318459	_____	$179.00	_____
IBM Word Processing Package (Diskettes Only)	8570	1318570	_____	$52.00	_____
IBM PC Multilingual Package	8659	1318659	_____	$179.00	_____
IBM PC Multilingual Package (Diskettes Only)	8670	1318670	_____	$52.00	_____
IBM Electronic Font III Cartridges	--	1318800	_____	$137.00	_____
IBM Pinwheel Forms Feed	9018	1319018	_____	$129.00	_____
IBM Quickwriter Printer Systems Serial Cable Attch.	9143	1319143	_____	$40.00	_____
IBM 5204 Quickwriter Printer Film Ribbon	--	1319300	_____	$15.75	_____
IBM 5204 Quickwriter Printer Fabric Ribbon	--	1319308	_____	$19.25	_____
IBM Quickwriter Printer Font Download Package	9371	1319371	_____	$175.00	_____
IBM Quickwriter Font Download Pkge(Dskts Only)	9372	1319372	_____	$50.00	_____
IBM Quickwriter Printer 32K Print Buffer	9391	1319391	_____	$75.00	_____
IBM Quietwriter Mod2 Printhead	--	1337488	_____	$28.50	_____
IBM Pinwheel Forms Feed	7820	1341091	_____	$108.00	_____
IBM PagePrinter (Mod 2) Sharing Card	3115	1348408	_____	$543.00	_____
IBM PagePrinter (Mod 2) 6 Meter Cable	3030	1348421	_____	$82.00	_____
IBM PagePrinter (Mod 2) 24 Meter Cable	3040	1348423	_____	$124.00	_____
IBM PagePrinter (Mod 2) Printer Stand	3050	1348481	_____	$341.00	_____
IBM Envelope Option	9620	1479620	_____	$310.00	_____
PC Parallel Attachment Cable	5612	1525612	_____	$47.00	_____
IBM Proprinter III/III XL 32KB Print Buffer	4003	23F4190	_____	$55.00	_____
RS-232/RS-422 Serial Interface Card	3050	23F4395	_____	$119.00	_____
IBM Interleaf Publishing Program (3.5")	--	25F5911	_____	$2,495.00	_____
IBM Interleaf Publishing Program (5.25")	--	25F5912	_____	$2,495.00	_____
IBM Pageprinter II 2MB Memory Expansion	4545	32F9545	_____	$1,495.00	_____
IBM Tabletop Pageprinter Model 2	3812-002	3812002	_____	$9,895.00	_____
IBM Proprinter II	4201-002	4201002	_____	$575.00	_____
IBM Proprinter III	4201-003	4201003	_____	$699.00	_____
IBM Proprinter II XL	4202-002	4202002	_____	$799.00	_____
IBM Proprinter III XL	4202-003	4202003	_____	$925.00	_____
IBM Proprinter X24E	4207-002	4207002	_____	$899.00	_____
IBM Proprinter XL24E	4208-002	4208002	_____	$1,199.00	_____
IBM Personal Pageprinter	4216-020	4216020	_____	$2,410.00	_____
IBM Personal Pageprinter II	4216-030	4216030	_____	$4,999.00	_____
IBM Quietwriter Printer Model 2	5201-002	5201002	_____	$1,039.00	_____
IBM Quietwriter III	5202-001	5202001	_____	$1,749.00	_____
IBM Quickwriter	5204-001	5204001	_____	$1,699.00	_____
IBM 4216 Toner	--	6190603	_____	$31.75	_____
IBM 4216 Photocontuctor Unit	--	6190604	_____	$218.00	_____
IBM 4216 Cleaning Unit	--	6190605	_____	$108.00	_____
IBM 4201 Proprinter Ribbon	--	6328829	_____	$10.00	_____

$$ - New Price

IBM PS/2 *HARDWARE* PRICE LIST

IBM Personal Printers and Desktop Publishing (Continued)

Model	IBM MACH/MOD FC#	IBM PART #	DEALER PART #	SUP	
IBM Single Drawer Sheet Feed	7840	6373100	_____	$365.00	_____
IBM Quickwriter Printer Serial Interface Cable	6685	6486685	_____	$58.00	_____
IBM Adjustable Single Bin Sheet Feed	7000	6487000	_____	$349.00	_____
Asynchronous Serial Interface Card	3000	6493187	_____	$103.00	_____
IBM Proprinter II/II XL 8K Print Buffer	4000	6493188	_____	$36.00	_____
IBM Personal Pageprinter Adapter	7001	75X8248	_____	$2,145.00	_____
IBM Personal PagePrinter Adapter/A	7002	75X8267	_____	$2,045.00	_____
IBM SolutionPac Personal Publishing - Mod 30 Mono	--	75X8268	_____	$9,136.00	_____
IBM SolutionPac Personal Publishing - Mod 30 Color	--	75X8269	_____	$9,611.00	_____
IBM SolutionPac Personal Publishing Option (5.25")	--	75X8274	_____	$6,241.00	_____
IBM SolutionPac Personal Publishing Option/A (3.5")	--	75X8275	_____	$6,340.00	_____
PC Serial Attach Cable (RS-232)	6031	8509386	_____	$47.00	_____
IBM Proprinter Narrow Carriage Automatic Sheet Feed	4927	87X9519	_____	$208.00	_____
IBM Proprinter Wide Carriage Automatic Sheet Feed	4928	87X9520	_____	$260.00	_____
IBM FontSet Package	4001	94X6120	_____	$114.00	_____
IBM FontSet (Diskettes Only)	4002	94X6121	_____	$33.00	_____
IBM FontSet (Module Only)	--	94X6122	_____	$84.75	_____

IBM Scanners

Model	IBM MACH/MOD FC#	IBM PART #	DEALER PART #	SUP	
IBM 3117 Scanner Model 010	3117-010	3117010	_____	$1,200.00	_____
IBM 3118 Scanner Model 010	3118-010	3118010	_____	$2,580.00	_____
IBM 3118 Scanner Model 020	3118-020	3118020	_____	$3,020.00	_____
IBM 3117 Adapter Cable	3005	6456807	_____	$71.00	_____
Scanner Extension Unit	4555	6456808	_____	$771.00	_____
High Speed Adapter/A	1028	65X1905	_____	$309.00	_____
3117 Adapter/A	1029	65X1925	_____	$305.00	_____
High Speed Adapter	4920	65X2016	_____	$309.00	_____
3117 Adapter	4925	65X2017	_____	$260.00	_____
IBM ImagEdit V 2.0 (Dual)	--	75X3255	_____	$519.00	_____
IBM TextReader V1.0 (3.5")	--	81X6801	_____	$620.00	_____
IBM TextReader V1.0 (5.25")	--	81X6821	_____	$620.00	_____
IBM 3119 PageScanner	3119-010	94X2410	_____	$1,515.00	_____
3119 Adapter/A	5442	94X2415	_____	$997.00	_____
IBM 3119 PageScanner Convenience (Scanner+Adapter)	3119-S10	94X2520	_____	$2,510.00	_____

IBM PS/2 *HARDWARE* PRICE LIST

Model	IBM MACH/MOD FC#	IBM PART #	DEALER PART #	SUP	
Realtime Inter. Co-Processor Multiport(128K)-5.25"	6240	00F5525	_____	$1,110.00	_____
Realtime Inter. Co-Processor Multiport(128K)-3.5"	6241	00F5527	_____	$1,110.00	_____
Realtime Inter. Co-Processor 512K Expansion	6242	00F5529	_____	$299.00	_____
Realtime Inter. Co-Proc Four Port RS232 Addition	6245	00F5530	_____	$189.00	_____
Realtime Inter. Co-proc. Interface Cable	6246	00F5531	_____	$220.00	_____
Realtime Interface Co-Processor Multiport/2	6263	09F1897	_____	$1,025.00	_____
Realtime Inter. Co-proc. 8 Port RS232 Intrf Board	6265	09F1952	_____	$325.00	_____
Realtime Inter. Co-proc. 4 Port RS232 Intrf Board	6267	09F1955	_____	$246.00	_____
Realtime Inter. Co-proc. RS232/RS422 Interface Board	6266	09F1958	_____	$351.00	_____
Realtime Inter. Co-Proc Four Port RS422 Addition	6243	09F1989	_____	$231.00	_____
Cartridge for Multiuser System (With Keycaps & Guide)	8005	09F6151	_____	$130.00	_____
Keycaps for Multiuser System Attachment	--	1394085	_____	$15.75	_____
0-8MB Expanded Memory Adapter/A	7259	1497259	_____	$600.00	_____
Binary Synchronous Communications Adapter(BSC)	1204	1501204	_____	$251.00	_____
SDLC Adapter	1205	1501205	_____	$251.00	_____
Speech Adapter	5002	1501216	_____	$362.00	_____
8087 Math Co-Processor (8MHz)	5001	1501217	_____	$325.00	_____
PC Network Broadband Adapter II	1220	1501220	_____	$597.00	_____
PC Network Baseband Adapter	1221	1501221	_____	$295.00	_____
PC Network Broadband Adapter II/A	1222	1501222	_____	$598.00	_____
PC Network Baseband/A	1223	1501223	_____	$295.00	_____
Data Migration Facility	5003	1501224	_____	$40.00	_____
PC Network Baseband Ext.Rack Mount Kit	1226	1501226	_____	$52.00	_____
Cabling System PC Network Baseband Cable	1227	1501227	_____	$36.00	_____
PC Network Baseband Gen. Purpose Cable	1228	1501228	_____	$36.00	_____
PC Network Baseband Adapter Cable	1229	1501229	_____	$26.00	_____
Game Control Adapter	1300	1501300	_____	$47.00	_____
Communications Adapter Cable	2067	1502067	_____	$68.00	_____
☛ Realtime Interface Co-Proc. 8 Port RS-422	6326	15F8852	_____	$420.00	_____
☛ Realtime Interface Co-Proc. 6 Port RS-232	6327	15F8861	_____	$320.00	_____
☛ Realtime Interface Co-Proc. Sync. Interface Cable	6328	15F8866	_____	$250.00	_____
Token Ring Network 16/4 Adapter/A	1133	16F1133	_____	$895.00	_____
Realtime Interface Co-Processor Multiport/2 - 1MB	6247	16F1820	_____	$1,395.00	_____
X.25 Interface Co-Processor/2	6401	16F1858	_____	$1,195.00	_____
Cable Option X.21	6321	16F1865	_____	$100.00	_____
Cable Option V.24	6322	16F1869	_____	$100.00	_____
Cable Option V.35	6323	16F1871	_____	$185.00	_____
☛ External Storage Device Cable	2716	23F2716	_____	$99.00	_____
☛ Industrial Belting Leather Carrying Case	3192	23F3192	_____	$350.00	_____
☛ Nylon Fisherman's Packcloth Carrying Case	3193	23F3193	_____	$180.00	_____
Token Ring Network 16/4 Adapter	7367	25F7367	_____	$895.00	_____
3270 Connection (Previously P/N 25F8060)	2000	25F8448	_____	$595.00	_____
Token Ring 4/16 Remote Program Load	8881	25F8887	_____	$94.00	_____
Token Ring Network Adapter II (4Mbps-Rqrd Mod 30 286)	9858	25F9858	_____	$650.00	_____
2MB Expanded Memory Adapter (XMA)	3905	2685193	_____	$1,355.00	_____
Mod 25 20MB Fixed Disk with Adapter	4110	27F4130	_____	$765.00	_____
5.25" External Diskette Drive Adapter Kit (360KB)	4114	27F4245	_____	$18.00	_____
☛ IBM 80387SX Math Co-Processor	4676	27F4676	_____	$795.00	_____
20MB Fixed Disk Drive (Mod 30 286)	4115	27F4969	_____	$765.00	_____
PS/2 Internal Tape Backup Unit	5279	30F5279	_____	$765.00	_____
PS/2 Internal Tape Backup Unit Convenience Kit	5280	30F5280	_____	$895.00	_____
0.5MB Memory Module Kit	3397	30F5348	_____	$215.00	_____
2MB Memory Module Kit	7833	30F5360	_____	$1,295.00	_____
PS/2 Multifunction Adapter	8635	30F5364	_____	$445.00	_____
Enhanced 5250 Disp. Stat. Emul Adapter Kit	2911	30F5383	_____	$595.00	_____
PS/2 5.25" External Diskette Drive (360KB)	4869-001	4869001	_____	$475.00	_____
PS/2 5.25" External Diskette Drive (1.2MB)	4869-002	4869002	_____	$495.00	_____

$$ - New Price

IBM PS/2 *HARDWARE* PRICE LIST

IBM Personal System/2 Options and Adapters (Continued)

Model	IBM MACH/MOD FC#	IBM PART #	DEALER PART #	SUP	
PC Network Translator Unit	5178-001	5178001	_____	$655.00	_____
InfoWindow Enhanced Graphics Adapter	5240	56X2412	_____	$759.00	_____
IBM 6157 Tape Attachment Adapter	4156	59X4156	_____	$367.00	_____
Multistation Access Unit	8228-001	6091014	_____	$727.00	_____
Token Ring Component Housing		6091078	_____	$108.45	_____
5173 Network Baseband Extender	5173-001	6134339	_____	$826.00	_____
6157-001 Streaming Tape Drive	6157-001	6157001	_____	$1,880.00	_____
6157-002 Streaming Tape Drive	6157-002	6157002	_____	$2,095.00	_____
Internal 2400 bps Modem	4829	6164829	_____	$597.00	_____
Token Ring Adapter Cable	3390	6339098	_____	$36.00	_____
Rack Mounting Assembly	3001	6339139	_____	$315.00	_____
Surface Mounting Brackets	3002	6339140	_____	$21.00	_____
Token Ring Network Copper Rptr	8218-001	6339532	_____	$1,775.00	_____
Token Ring Network Optical Fiber Rptr	8219-001	6339535	_____	$2,405.00	_____
3363 Optical Disk Drive (A01)	3363-A01	63X4131	_____	$3,095.00	_____
3363 Internal Optical Disk Drive	8700	63X4166	_____	$2,835.00	_____
3363 Optical Disk Drive (B01)	3363-B01	63X4182	_____	$2,480.00	_____
General Purpose Interface Bus Cable	5040	63X4882	_____	$107.00	_____
Enhanced 5250 Disp. Stat. Emul Cable	2877	6403635	_____	$90.00	_____
Serial/Parallel Adapter	0215	6450215	_____	$157.00	_____
Serial Adapter Cable	0217	6450217	_____	$68.00	_____
PC Network Base Expander Kit	0230	6450230	_____	$61.00	_____
PC Network Short Distance Kit	0231	6450231	_____	$40.00	_____
PC Network Medium Distance Kit	0232	6450232	_____	$82.00	_____
PC Network Long Distance Kit	0233	6450233	_____	$93.00	_____
PC Network 25ft Cable	0234	6450234	_____	$30.00	_____
PC Network 50ft Cable	0235	6450235	_____	$40.00	_____
PC Network 100ft Cable	0236	6450236	_____	$61.00	_____
PC Network 200ft Cable	0237	6450237	_____	$103.00	_____
120V Transformer	0238	6450238	_____	N/C	_____
Serial Adapter Connector	0242	6450242	_____	$37.00	_____
5.25 Ex. Diskette Drive Adapter (360KB)	8750	6450244	_____	$70.00	_____
5.25 Ex. Diskette Drive Adapter/A (360KB)	8760	6450245	_____	$70.00	_____
80286 Memory Expansion Option	3006	6450344	_____	$630.00	_____
80286 Memory Expansion Kit	3012	6450345	_____	$215.00	_____
Multi-protocol Adapter/A (50,60,80-41/71)	3042	6450348	_____	$340.00	_____
PS/2 300/1200 Internal Modem/A	0349	6450349	_____	$413.00	_____
IBM Mouse	8770	6450350	_____	$99.00	_____
2nd 1.44MB Diskette Drive	3057	6450353	_____	$257.00	_____
44MB Fixed Disk	3046	6450354	_____	$1,460.00	_____
70MB Fixed Disk	3051	6450355	_____	$2,510.00	_____
80287 Math Co-Processor (10MHz)	3001	6450356	_____	$595.00	_____
80386 Memory Expansion Option	3019	6450367	_____	$1,695.00	_____
80387 Math Co-Processor (16MHz)	3002	6450369	_____	$895.00	_____
80386 Memory Expansion Kit	3064	6450372	_____	$1,395.00	_____
System Board RAM Kit (8580-041)	3009	6450375	_____	$729.00	_____
115MB Fixed Disk	8730	6450377	_____	$3,665.00	_____
80387 Math Co-Processor (20MHz)	8720	6450378	_____	$1,295.00	_____
System Board RAM Kit (8580-111)	8722	6450379	_____	$1,395.00	_____
314MB Fixed Disk	6023	6450381	_____	$6,815.00	_____
1MB Memory Module Kit-85ns	5212	6450603	_____	$695.00	_____
2MB Memory Module Kit-85ns	5213	6450604	_____	$1,395.00	_____
2-8MB 80386 Memory Expansion Option	5211	6450605	_____	$1,695.00	_____
60MB Fixed Disk (Model 50)	6666	6450606	_____	$1,695.00	_____
80387 Math Co-Processor (25MHz)	6320	6450607	_____	$2,395.00	_____
2MB Memory Module Kit-80ns	5214	6450608	_____	$1,495.00	_____
☛ 2-8MB Memory Expansion Option (Mod 50,55SX & 60)	8286	6450609	_____	$1,795.00	_____

IBM Personal System/2 Single Unit Prices

IBM Personal System/2 Options and Adapters (Continued)

Model	IBM MACH/MOD FC#	IBM PART #	DEALER PART #	SUP	
Multi-protocol Adapter/A	3043	6451003	_____	$340.00	_____
PS/2 5.25" Internal Diskette Drive (1.2MB)	--	6451006	_____	$280.00	_____
PS/2 5.25" Diskette Adapter/A (360KB & 1.2MB)	--	6451007	_____	$200.00	_____
Dual Async Adapter/A	1014	6451013	_____	$151.00	_____
☛ 2nd 1.44MB 1-inch Diskette Drive (Mod 30-E01)	1026	6451026	_____	$256.00	_____
☛ 2nd 720KB 1-inch High Diskette Drive(Mod30-001)	1027	6451027	_____	$155.00	_____
☛ 30 MB Fixed Disk Drive (Mod 30-E01 & 001)	1030	6451030	_____	$950.00	_____
☛ External 5.25" Diskette Drive Adapter Cable	1033	6451033	_____	$21.00	_____
☛ 2nd 1.44MB 1-inch Diskette Drive Kit A (Mod 30-E01)	1034	6451034	_____	$25.00	_____
☛ 2nd 1.44MB Diskette Drive Kit A (Mod 30-E01)	1037	6451037	_____	$30.00	_____
Data Acquisition Control Adapter	1502	6451502	_____	$1,020.00	_____
General Purpose Interface Bus Adapter	1503	6451503	_____	$309.00	_____
Data Acquisition Display Panel	1504	6451504	_____	$199.00	_____
3363 Optical Disk Drive (A11)	3363-A11	68X7946	_____	$3,095.00	_____
Sys36/38 Workstation Emulation Adapter/A	6279	69X6279	_____	$620.00	_____
Sys/36/38 Wkstat. Emul. Attch Cbl	6293	69X6293	_____	$65.00	_____
Token-Ring Adapter/A	4790	69X8138	_____	$750.00	_____
Enh.5250 Disp.Stat.Emul Space Sav.KB Add.	9610	74X7840	_____	N/A.00	_____
Model 25 Carrying Case	4103	78X8954	_____	$72.00	_____
Mod25 Sys Board 128KB Memory Expansion Kit	4105	78X8955	_____	$50.00	_____
Mod 25 3.5" 720KB Diskette Drive	4106	78X8956	_____	$175.00	_____
Model 25 20MB Fixed Disk	4107	78X8958	_____	$765.00	_____
IBM PC Music Feature	6011	81X8630	_____	$519.00	_____
Token Ring Adapter/A Remote Program Load	8881	83X8881	_____	$94.00	_____
InfoWindow Attachment Kit	4239	83X9239	_____	$1,100.00	_____
3278/79 Emulation Adapter	5050	8575427	_____	$624.00	_____
6157 Streaming Tape Adapter/A	4160	92X1458	_____	$367.00	_____
☛ 300/1200/2400 bps Internal Modem/A	1755	94X1755	_____	$449.00	_____
PC Network Adapter II-Freq. 2	5645	96X5645	_____	$597.00	_____
PC Network Adapter II-Freq. 3	5646	96X5646	_____	$597.00	_____
PC Network Adapter II/A-Freq. 2	5647	96X5647	_____	$598.00	_____
PC Network Adapter II/A-Freq. 3	5648	96X5648	_____	$598.00	_____
TR Network Trace & Perf. Adptr II	5773	96X5773	_____	$1,385.00	_____
TR Network Trace & Perf. Adptr/A	5774	96X5774	_____	$1,280.00	_____
Token Ring Network Optical Fiber Converter Mod 01	8220-001	96X5810	_____	$3,000.00	_____
IBM Device Twinax to TTPA	--	96X6187	_____	$68.00	_____

$$ - New Price

IBM Personal System/2 Single Unit Prices

IBM PS/2 *SOFTWARE* PRICE LIST - SORTED BY CATEGORIES

May 1989 Edition

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Operating Systems and System Software - DOS

Model	IBM PART #	DEALER PART #	SULC	
IBM Realtime Int. Co-Proc. Extended Serv.(3.5")	15F8933	_____	$160	_____
IBM Realtime Int. Co-Proc. DOS Support 1.01 (Dual)	15F9055	_____	$88	_____
IBM Realtime Int. Co-Proc. Develop. Kit V 2.01	16F2020	_____	$2,035	_____
IBM Realtime Int. Co-Proc. Extended Serv.(5.25")	22F7988	_____	$160	_____
IBM PS/2 Internal Tape Backup Program (3.5")	30F5278	_____	$100	_____
Above Disc 2.0 (3.5")	30F5448	_____	$104	_____
DOS Introduction & Implementation (5.25")	32F8313	_____	$79.95	_____
DOS Introduction & Implementation (3.5"	32F8316	_____	$79.95	_____
IBM SY-TOS IBM 6157 Tape Utilities V3.0	37F6334	_____	$150	_____
IBM Professional Debug	6024143	_____	$173	_____
IBM PC Gen Purpose Interf. Bus Adapter Prog. Support	6024201	_____	$97	_____
IBM PC Data Aquisition & Ctrl Adapter Prog. Support	6024202	_____	$192	_____
IBM DOS V 4.00 Program Package & Windows Kit (3.5")	6024869	_____	$314	_____
IBM DOS V 3.30 Technical Ref. (Dual Media)	6280059	_____	$89.20	_____
IBM DOS V 3.30 (Dual Media)	6280060	_____	$125	_____
IBM PC Graphics Dev. Toolkit V 1.2	6280203	_____	$556	_____
IBM DOS V 4.00 (5.25")	6280225	_____	$150	_____
IBM DOS V 4.00 Tech. Ref & Applic. Prog.(Dual Media)	6280254	_____	$105	_____
IBM DOS V 4.00 (3.5")	6280256	_____	$150	_____
EZ-VU Runtime Facility-II	6476162	_____	$33	_____
EZ-VU Development Facility-II	6476163	_____	$282	_____
IBM SY-TOS IBM 6157 Tape Utilities V2.0	75X1147	_____	$100	_____
IBM DisplayGraphics (3.5")	75X3228	_____	$650	_____
IBM DisplayGraphics (5.25")	75X3229	_____	$650	_____
IBM InfoWindow Control Program V 1.3 (Dual)	83X9250	_____	$198	_____
IBM Realtime Int. Co-Proc. C Lang. Support (5.25")	85X2718	_____	$473	_____
IBM Realtime Int. Co-Proc. C Lang. Support (3.5")	85X2719	_____	$473	_____

Operating Systems and System Software - OS/2

Model	IBM PART #	DEALER PART #	SULC	
IBM Realtime Int. Co-Proc. OS/2 Support 1.01 (Dual)	15F9056	_____	$176	_____
IBM OS/2 SE V 1.1 (3.5"/1.44MB)	6280194	_____	$340	_____
IBM OS/2 SE V 1.1 (5.25"/1.2MB)	6280195	_____	$340	_____
IBM OS/2 Graphics Dev. Toolkit (Dual Media)	6280202	_____	$1,100	_____
IBM OS/2 Prog. Toolkit V1.1 (Dual)	6280211	_____	$787	_____
IBM OS/2 Technical Reference V1.1	6280212	_____	$210	_____
IBM RPG II Application Toolkit	6280293	_____	$3,000	_____
IBM RPG II Application Platform	6280294	_____	$1,500	_____
IBM OS/2 EE V 1.1 (5.25"/1.2MB)	90X7899	_____	$830	_____
IBM OS/2 EE V 1.1 (3.5"/1.44MB)	90X7900	_____	$830	_____
IBM OS/2 EE Kbd Template for AT Keyboard (Pack of 10)	90X7960	_____	$25	_____
IBM OS/2 EE Kbd Template for Enhanced Kbd (Pack of 10)	90X7961	_____	$35	_____

☛ - New Product

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IBM PS/2 *SOFTWARE* PRICE LIST

Languages

Model	IBM PART #	DEALER PART #	SULC	
IBM COBOL Version 2.00	6280177	_____	$900	_____
IBM BASIC Compiler/2	6280179	_____	$666	_____
IBM Macro Assembler/2	6280181	_____	$252	_____
IBM Pascal Compiler/2	6280183	_____	$666	_____
IBM FORTRAN/2	6280185	_____	$666	_____
IBM COBOL/2	6280207	_____	$1,010	_____
IBM C/2 V 1.10 (5.25"-1.2MB & 3.5"-720KB)	6280284	_____	$588	_____

Communications

Model	IBM PART #	DEALER PART #	SULC	
IBM Netview/PC Version 1.2 -for OS/2 (Dual Media)	25F5974	_____	$3,000	_____
IBM PC Node Executive (PCNX) Version 1 (Dual Media)	25F5988	_____	$145	_____
IBM Enhanced 5250 Emulation Conv. Kit V2.12	30F5382	_____	$845	_____
IBM PC 3270 Emulation Program V3.0	59X9969	_____	$519	_____
IBM Asynchronous Communications V2.00	6024032	_____	$65	_____
IBM 3101 Emulation Program	6024042	_____	$149	_____
IBM PC DisplayComm V 1.1	6024210	_____	$470	_____
IBM GDDM-PCLK V1.1	6242913	_____	$78	_____
IBM Netview/PC Version 1.1 -for DOS (Dual Media)	6476173	_____	$2,310	_____
IBM S36/38 Workstation Emul Prg V1.0	69X6286	_____	$176	_____
IBM S36/38 Workstation Emul Conv. Kit V1.0	69X6287	_____	$893	_____
IBM Enhanced 5250 Emulation Program V2.12	74X8402	_____	$160	_____
IBM APPC/PC V1.11	75X1047	_____	$199	_____
IBM PC 3270 Emulation Prg,Entry Level V1.2	75X1085	_____	$355	_____
IBM 3270 PC HLLAPI V 3.1	75X1087	_____	$225	_____
IBM 3270 Workstation Program V 1.1	75X1088	_____	$540	_____
IBM PC/Host File Transf/Term V2 - FTERM	75X3286	_____	$152	_____
IBM PC 3270 Emulation LAN Managmt V1.0	83X8873	_____	$1,040	_____
IBM Remote 5250 Emulation Program V2	92X0718	_____	$285	_____

LAN Software

Model	IBM PART #	DEALER PART #	SULC	
IBM Asynch Communications Server Program (5.25")	1642003	_____	$519	_____
IBM Token Ring Network Bridge Program V2.0 (DualMedia)	16F0492	_____	$1,595	_____
IBM Token Ring Network Bridge Program V2.1 (Dual Media)	16F0493	_____	$1,595	_____
IBM Remote NETBIOS Access Facility V 2.1 (Dual Media)	16F0538	_____	$257	_____
IBM LAN Manager Program V2.0 (Dual Media)	25F8215	_____	$2,995	_____
IBM LAN Manager Entry Version 1.0 (Dual Media)	25F8217	_____	$995	_____
IBM People Sharing Inf.(PSInet) Workst.V1-Dual Media	6024873	_____	$115	_____
IBM People Sharing Inf.(PSInet) Server V1-Dual Media	6024874	_____	$400	_____
IBM PC Network Protocol Driver (Dual Media)	6280061	_____	$105	_____
IBM Token Ring Interconnect Program (5.25")	6467036	_____	$519	_____
IBM PC Network Analysis Program (5.25")	6489762	_____	$1,295	_____
IBM Token Ring Network Bridge Program V1.1 (Dual Media)	83X7860	_____	$1,565	_____
IBM LAN Manager Program V1.0 (Dual Media)	83X9100	_____	$2,090	_____
IBM LAN Asynch Connection Server Prg (Dual Media)	83X9132	_____	$1,260	_____
IBM PC LAN Program Version 1.3 (5.25")	84X0061	_____	$245	_____
IBM PC LAN Program Version 1.3 (3.5")	84X0076	_____	$245	_____
IBM OS/2 LAN Server V1.0 (3.5")	84X0083	_____	$1,040	_____
IBM OS/2 LAN Server V1.0 (5.25")	84X0084	_____	$1,040	_____
IBM LAN Support Program Version 1.1(Dual Media)	93X5683	_____	$60	_____
IBM PC Network Bridge Program (3.5")	95X5860	_____	$4,995	_____
IBM Token Ring Trace & Performance Prg. (Dual Media)	96X5763	_____	$309	_____

$$ - New Price

IBM PS/2 *SOFTWARE* PRICE LIST

AIX

Model	IBM PART #	DEALER PART #	SULC	
☞ IBM AIX PS/2 Operating System (1 or 2 users)	37F6377	____	$595	____
$$ IBM AIX PS/2 Operating System	11F8182	____	$795	____
$$ IBM AIX PS/2 Operating System Extensions	11F8194	____	$275	____
$$ IBM AIX PS/2 DOS Merge	11F8181	____	$275	____
$$ IBM AIX PS/2 Usability Services	11F8191	____	$275	____
$$ IBM AIX PS/2 Text Formatting System	11F8190	____	$220	____
$$ IBM AIX PS/2 X-Windows	11F8186	____	$214	____
$$ IBM AIX PS/2 Application Development Toolkit	11F8180	____	$192	____
$$ IBM AIX PS/2 VS FORTRAN	11F8188	____	$302	____
$$ IBM AIX PS/2 VS Pascal	11F8187	____	$302	____
$$ IBM AIX PS/2 C Language	11F8189	____	$302	____
$$ IBM AIX PS/2 Workstation Host Interface Program	11F8183	____	$441	____
$$ IBM AIX PS/2 Transmission Control Protocol/Internet Protocol (TCP/IP)	11F8185	____	$330	____
$$ IBM AIX PS/2 INmail/INed/INnet/FTP	11F8184	____	$275	____
$$ IBM AIX Access for DOS Users	11F8252	____	$164	____
$$ IBM AIX X-Windows for IBM DOS	11F8253	____	$214	____
IBM AIX PS/2 Distributed Services	11F8195	____	$400	____
IBM AIX PS/2 Network File System	11F8193	____	$400	____
IBM AIX PS/2 DOS Server	11F8192	____	$225	____
IBM AIX Transparent Computing Facility	11F8196	____	$400	____
IBM AIX PS/2 X.25	27F4254	____	$600	____
ORACLE DBMS (Single User)	11F8207	____	$1,500	____
ORACLE DBMS (2-8 Users)	11F8341	____	$1,500	____
ORACLE DBMS (More than 8 Users)	11F8365	____	$2,000	____
SQL*PLUS (Single User)	11F8213	____	$300	____
SQL*PLUS (2-8 Users)	11F8342	____	$300	____
SQL*PLUS (More than 8 Users)	11F8366	____	$400	____
SQL*Forms (Single User)	11F8212	____	$375	____
SQL*Forms (2-8 Users)	11F8343	____	$375	____
SQL*Forms (More than 8 Users)	11F8367	____	$500	____
SQL*Menu (Single User)	11F8214	____	$225	____
SQL*Menu (2-8 Users)	11F8344	____	$225	____
SQL*Menu (More than 8 Users)	11F8368	____	$300	____
SQL*Net (Single User)	11F8208	____	$300	____
SQL*Net (2-8 Users)	11F8345	____	$300	____
SQL*Net (More than 8 Users)	11F8369	____	$400	____
SQL*Net TCP/IP Protocol Device Driver (Single User)	11F8209	____	$225	____
SQL*Net TCP/IP Protocol Device Driver (2-8 Users)	11F8346	____	$225	____
SQL*Net TCP/IP Protocol Device Driver (More than 8 Users)	11F8370	____	$300	____
Pro*C Programming Interface (Single User)	11F8218	____	$225	____
Pro*C Programming Interface (2-8 Users)	11F8347	____	$225	____
Pro*C Programming Interface (More than 8 Users)	11F8371	____	$300	____
Pro*FORTRAN Programming Interface (Single User)	11F8220	____	$225	____
Pro*FORTRAN Programming Interface (2-8 Users)	11F8349	____	$225	____
Pro*FORTRAN Programming Interface (More than 8 Users)	11F8373	____	$300	____
INGRES Data Base Management System (Single User)	11F8269	____	$2,000	____
INGRES Data Base Management System (2-8 Users)	11F8350	____	$1,500	____
INGRES Data Base Management System (9-16 Users)	11F8351	____	$1,500	____
INGRES/APPLICATIONS (Single User)	11F8270	____	$600	____
INGRES/APPLICATIONS (2-8 Users)	11F8352	____	$400	____
INGRES/APPLICATIONS (9-16 Users)	11F8353	____	$500	____
Embedded SQL Preprocessor for FORTRAN (Single User)	11F8274	____	$200	____
Embedded SQL Preprocessor for FORTRAN (2-8 Users)	11F8354	____	$150	____
Embedded SQL Preprocessor for FORTRAN (9-16 Users)	11F8355	____	$150	____
Embedded SQL Preprocessor for Pascal (Single User)	11F8275	____	$200	____
Embedded SQL Preprocessor for Pascal (2-8 Users)	11F8356	____	$150	____
Embedded SQL Preprocessor for Pascal (9-16 Users)	11F8357	____	$150	____

IBM PS/2 *SOFTWARE* PRICE LIST

AIX (Continued)

Model	IBM PART #	DEALER PART #	SULC	
INGRES/NET (Single User)	11F8271	_____	N/C	_____
INGRES/NET (2-8 Users)	11F8358	_____	N/C	_____
INGRES/NET (9-16 Users)	11F8359	_____	N/C	_____
INGRES/STAR (Single User)	11F8272	_____	$600	_____
INGRES/STAR (2-8 Users)	11F8360	_____	$400	_____
INGRES/STAR (9-16 Users)	11F8361	_____	$500	_____
INGRES/PCLINK (Single User)	11F8273	_____	$200	_____
INGRES/PCLINK (2-8 Users)	11F8362	_____	$150	_____
INGRES/PCLINK (9-16 Users)	11F8363	_____	$150	_____

IMPORTANT NOTICE: Multiple user prices are incremental. For example: a single user system requires only the single user part number. A 2-8 user system requires BOTH the single user and the 2-8 user part numbers. A more than 8 user system (or a 9-16 user system) requires all three part numbers; i.e. the single user, the 2-8 user and the more than 8 (or the 9-16) user part numbers.

$$ - New Price

IBM PERSONAL SYSTEM/2 ADAPTER & OPTION LIST - *SORTED BY FEATURE CODES*

May 1989 Edition

Model	IBM Feature Code Number	IBM Part Number
IBM 3117 Scanner Model 010	3117-010	3117010
IBM 3118 Scanner Model 010	3118-010	3118010
IBM 3118 Scanner Model 020	3118-020	3118020
IBM 3119 PageScanner	3119-010	94X2410
IBM 3119 PageScanner Convenience (Scanner+Adapter)	3119-S10	94X2520
3363 Optical Disk Drive (A01)	3363-A01	63X4131
3363 Optical Disk Drive (A11)	3363-A11	68X7946
3363 Optical Disk Drive (B01)	3363-B01	63X4182
IBM Tabletop Pageprinter Model 2	3812-002	3812002
IBM Proprinter II	4201-002	4201002
IBM Proprinter III	4201-003	4201003
IBM Proprinter II XL	4202-002	4202002
IBM Proprinter III XL	4202-003	4202003
IBM Proprinter X24E	4207-002	4207002
IBM Proprinter XL24E	4208-002	4208002
IBM Personal Pageprinter	4216-020	4216020
IBM Personal Pageprinter II	4216-030	4216030
PS/2 5.25" External Diskette Drive (360KB)	4869-001	4869001
PS/2 5.25" External Diskette Drive (1.2MB)	4869-002	4869002
5173 Network Baseband Extender	5173-001	6134339
PC Network Translator Unit	5178-001	5178001
IBM Quietwriter Printer Model 2	5201-002	5201002
IBM Quietwriter III	5202-001	5202001
IBM Quickwriter	5204-001	5204001
6157-001 Streaming Tape Drive	6157-001	6157001
6157-002 Streaming Tape Drive	6157-002	6157002
Token Ring Network Copper Rptr	8218-001	6339532
Token Ring Network Optical Fiber Rptr	8219-001	6339535
Token Ring Network Optical Fiber Converter Mod 01	8220-001	96X5810
Multistation Access Unit	8228-001	6091014
IBM 8503 12" Mono	8503-001	8503001
IBM 8507 19" Mono	8507-001	6247810
IBM 8512 14" Color	8512-001	8512001
IBM 8513 12" Color	8513-001	8513001
IBM 8514 16" Color	8514-001	8514001
Serial/Parallel Adapter	0215	6450215
Serial Adapter Cable	0217	6450217
PC Network Base Expander Kit	0230	6450230
PC Network Short Distance Kit	0231	6450231
PC Network Medium Distance Kit	0232	6450232
PC Network Long Distance Kit	0233	6450233
PC Network 25ft Cable	0234	6450234
PC Network 50ft Cable	0235	6450235
PC Network 100ft Cable	0236	6450236
PC Network 200ft Cable	0237	6450237
120V Transformer	0238	6450238
Serial Adapter Connector	0242	6450242
PS/2 300/1200 Internal Modem/A	0349	6450349
Dual Async Adapter/A	1014	6451013
☛ 2nd 1.44MB 1-inch Diskette Drive (Mod 30-E01)	1026	6451026
☛ 2nd 720KB 1-inch High Diskette Drive(Mod30-001)	1027	6451027
High Speed Adapter/A	1028	65X1905
3117 Adapter/A	1029	65X1925
☛ 30 MB Fixed Disk Drive (Mod 30-E01 & 001)	1030	6451030
☛ External 5.25" Diskette Drive Adapter Cable	1033	6451033

ADAPTER & OPTION LIST - *SORTED BY FEATURE CODES*

Model	IBM Feature Code Number	IBM Part Number
☛ 2nd 1.44MB 1-inch Diskette Drive Kit A (Mod 30-E01)	1034	6451034
☛ 2nd 1.44MB Diskette Drive Kit A (Mod 30-E01)	1037	6451037
Token Ring Network 16/4 Adapter/A	1133	16F1133
Binary Synchronous Communications Adapter(BSC)	1204	1501204
SDLC Adapter	1205	1501205
PC Network Broadband Adapter II	1220	1501220
PC Network Baseband Adapter	1221	1501221
PC Network Broadband Adapter II/A	1222	1501222
PC Network Baseband Adapter/A	1223	1501223
PC Network Baseband Ext.Rack Mount Kit	1226	1501226
Cabling System PC Network Baseband Cable	1227	1501227
PC Network Baseband Gen. Purpose Cable	1228	1501228
PC Network Baseband Adapter Cable	1229	1501229
Game Control Adapter	1300	1501300
Data Acquisition Control Adapter	1502	6451502
General Purpose Interface Bus Adapter	1503	6451503
Data Acquisition Display Panel	1504	6451504
☛ 300/1200/2400 bps Internal Modem/A	1755	94X1755
3270 Connection (Previously P/N 25F8060)	2000	25F8448
Communications Adapter Cable	2067	1502067
☛ External Storage Device Cable	2716	23F2716
Enhanced 5250 Disp. Stat. Emul Cable	2877	6403635
Enhanced 5250 Disp. Stat. Emul Adapter Kit	2911	30F5383
Asynchronous Serial Interface Card	3000	6493187
80287 Math Co-Processor (10MHz)	3001	6450356
Rack Mounting Assembly	3001	6339139
Surface Mounting Brackets	3002	6339140
80387 Math Co-Processor (16MHz)	3002	6450369
IBM 3117 Adapter Cable	3005	6456807
80286 Memory Expansion Option	3006	6450344
System Board RAM Kit (8580-041)	3009	6450375
80286 Memory Expansion Kit	3012	6450345
80386 Memory Expansion Option	3019	6450367
IBM PagePrinter (Mod 2) 6 Meter Cable	3030	1348421
IBM PagePrinter (Mod 2) 24 Meter Cable	3040	1348423
Multi-protocol Adapter/A (50,60,80-41/71)	3042	6450348
Multi-protocol Adapter/A	3043	6451003
44MB Fixed Disk	3046	6450354
RS-232/RS-422 Serial Interface Card	3050	23F4395
70MB Fixed Disk	3051	6450355
2nd 1.44MB Diskette Drive	3057	6450353
80386 Memory Expansion Kit	3064	6450372
IBM PagePrinter (Mod 2) Sharing Card	3115	1348408
☛ Industrial Belting Leather Carrying Case	3192	23F3192
☛ Nylon Fisherman's Packcloth Carrying Case	3193	23F3193
Token Ring Adapter Cable	3390	6339098
0.5MB Memory Module Kit	3397	30F5348
2MB Expanded Memory Adapter (XMA	3905	2685193
IBM Proprinter II/II XL 8K Print Buffer	4000	6493188
IBM FontSet Package	4001	94X6120
IBM FontSet (Diskettes Only)	4002	94X6121
IBM Proprinter III/III XL 32KB Print Buffer	4003	23F4190
Display Adapter	4050	1887744
Display Adapter 8514/A	4054	1887972
8514 Memory Expansion Kit	4081	1887989
Model 25 Carrying Case	4103	78X8954
Mod25 Sys Board 128KB Memory Expansion Kit	4105	78X8955
Mod 25 3.5" 720KB Diskette Drive	4106	78X8956
Model 25 20MB Fixed Disk	4107	78X8958

$$ - New Price

ADAPTER & OPTION LIST - *SORTED BY FEATURE CODES*

Model	IBM Feature Code Number	IBM Part Number
Mod 25 20MB Fixed Disk with Adapter	4110	27F4130
5.25" External Diskette Drive Adapter Kit (360KB)	4114	27F4245
20MB Fixed Disk Drive (Mod 30 286)	4115	27F4969
IBM 6157 Tape Attachment Adapter	4156	59X4156
6157 Streaming Tape Adapter/A	4160	92X1458
InfoWindow Attachment Kit	4239	83X9239
IBM Pageprinter II 2MB Memory Expansion	4545	32F9545
Scanner Extension Unit	4555	6456808
☛ IBM 80387SX Math Co-Processor	4676	27F4676
Token-Ring Adapter/A	4790	69X8138
High Speed Adapter	4920	65X2016
3117 Adapter	4925	65X2017
IBM Proprinter Narrow Carriage Automatic Sheet Feed	4927	87X9519
IBM Proprinter Wide Carriage Automatic Sheet Feed	4928	87X9520
8087 Math Co-Processor (8MHz)	5001	1501217
Speech Adapter	5002	1501216
Data Migration Facility	5003	1501224
Color Display Stand (for 8512 Display)	5004	1501215
General Purpose Interface Bus Cable	5040	63X4882
3278/79 Emulation Adapter	5050	8575427
2-8MB 80386 Memory Expansion Option	5211	6450605
1MB Memory Module Kit-85ns	5212	6450603
2MB Memory Module Kit-85ns	5213	6450604
2MB Memory Module Kit-80ns	5214	6450608
InfoWindow Enhanced Graphics Adapter	5240	56X2412
PS/2 Internal Tape Backup Unit	5279	30F5279
PS/2 Internal Tape Backup Unit Convenience Kit	5280	30F5280
3119 Adapter/A	5442	94X2415
PC Parallel Attachment Cable	5612	1525612
PC Network Adapter II-Freq. 2	5645	96X5645
PC Network Adapter II-Freq. 3	5646	96X5646
PC Network Adapter II/A-Freq. 2	5647	96X5647
PC Network Adapter II/A-Freq. 3	5648	96X5648
TR Network Trace & Perf. Adptr II	5773	96X5773
TR Network Trace & Perf. Adptr/A	5774	96X5774
IBM PC Music Feature	6011	81X8630
314MB Fixed Disk	6023	6450381
PC Serial Attach Cable (RS-232)	6031	8509386
Realtime Inter. Co-Processor Multiport(128K)-5.25"	6240	00F5525
Realtime Inter. Co-Processor Multiport(128K)-3.5"	6241	00F5527
Realtime Inter. Co-Processor 512K Expansion	6242	00F5529
Realtime Inter. Co-Proc Four Port RS422 Addition	6243	09F1989
Realtime Inter. Co-Proc Four Port RS232 Addition	6245	00F5530
Realtime Inter. Co-proc. Interface Cable	6246	00F5531
Realtime Interface Co-Processor Multiport/2 - 1MB	6247	16F1820
Realtime Interface Co-Processor Multiport/2	6263	09F1897
Realtime Inter. Co-proc. 8 Port RS232 Intrf Board	6265	09F1952
Realtime Inter. Co-proc. RS232/RS422 Interface Board	6266	09F1958
Realtime Inter. Co-proc. 4 Port RS232 Intrf Board	6267	09F1955
Sys36/38 Workstation Emulation Adapter/A	6279	69X6279
Sys/36/38 Wkstat. Emul. Attch Cbl	6293	69X6293
80387 Math Co-Processor (25MHz)	6320	6450607
Cable Option X.21	6321	16F1865
Cable Option V.24	6322	16F1869
Cable Option V.35	6323	16F1871
☛ Realtime Interface Co-Proc. 8 Port RS-422	6326	15F8852
☛ Realtime Interface Co-Proc. 6 Port RS-232	6327	15F8861
☛ Realtime Interface Co-Proc. Sync Interface Cable	6328	15F8866
X.25 Interface Co-Processor/2	6401	16F1858

ADAPTER & OPTION LIST - *SORTED BY FEATURE CODES*

Model	IBM Feature Code Number	IBM Part Number
60MB Fixed Disk (Model 50)	6666	6450606
IBM Quickwriter Printer Serial Interface Cable	6685	6486685
IBM Adjustable Single Bin Sheet Feed	7000	6487000
IBM Personal Pageprinter Adapter	7001	75X8248
IBM Personal PagePrinter Adapter/A	7002	75X8267
0-8MB Expanded Memory Adapter/A	7259	1497259
Token Ring Network 16/4 Adapter	7367	25F7367
IBM Pinwheel Forms Feed	7820	1341091
2MB Memory Module Kit	7833	30F5360
IBM Single Drawer Sheet Feed	7840	6373100
Cartridge for Multiuser System (With Keycaps & Guide)	8005	09F6151
IBM Dual Drawer Sheet Feed	8077	1058077
IBM Pinwheel Forms Feed	8214	1318214
☛ 2-8MB Memory Expansion Option (Mod 50,55SX & 60)	8286	6450609
IBM Word Processing Package	8459	1318459
IBM Word Processing Package (Diskettes Only)	8570	1318570
PS/2 Multifunction Adapter	8635	30F5364
IBM PC Multilingual Package	8659	1318659
IBM PC Multilingual Package (Diskettes Only)	8670	1318670
3363 Internal Optical Disk Drive	8700	63X4166
80387 Math Co-Processor (20MHz)	8720	6450378
System Board RAM Kit (8580-111)	8722	6450379
115MB Fixed Disk	8730	6450377
5.25 Ex. Diskette Drive Adapter (360KB)	8750	6450244
5.25 Ex. Diskette Drive Adapter/A (360KB)	8760	6450245
IBM Mouse	8770	6450350
Token Ring 4/16 Remote Program Load	8881	25F8887
Token Ring Adapter/A Remote Program Load	8881	83X8881
IBM Pinwheel Forms Feed	9018	1319018
IBM Quickwriter Printer Systems Serial Cable Attch.	9143	1319143
IBM Quickwriter Printer Font Download Package	9371	1319371
IBM Quickwriter Font Download Pkge(Dskts Only)	9372	1319372
IBM Quickwriter Printer 32K Print Buffer	9391	1319391
Enh.5250 Disp.Stat.Emul Space Sav.KB Add.	9610	74X7840
IBM Envelope Option	9620	1479620
Token Ring Network Adapter II(4Mbps-Reqrd Mod30 286)	9858	25F9858

$$ - New Price
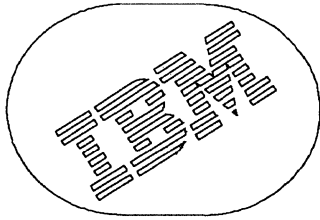
Personal System/2 & Printer Sales Advisor

IBM PS/2 Market Support Material

International Business Machines Corporation
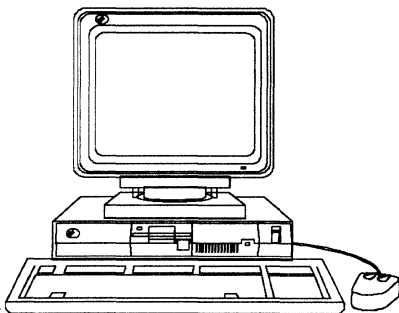
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Market Support Material

The PS/2 marketing support materials are invaluable to the successful marketing of the Personal System/2 product family. The reference material provides quick and easy access to product specifications, features, functions, and benefits of each of the PS/2 models and options. Promotional material is also available to assist customers in making the right buying decision for their personal computing needs. The PS/2 marketing support material such as slides, foils and scripts enable you to give a professional presentation of the entire PS/2 family or an individual Personal System/2 model.

Brochures...spec sheets...pocket guides...posters...they'll all help to maximize your marketing efforts. The materials lend themselves to many imaginative uses as outlined in this guide. They'll help you increase your sales, educate your sales force, inform your customers, and generate leads.

And some can be reordered whenever you want: Just select the order numbers from those supplied here, fill out the reorder form, and sent it to:

IBM Fulfillment Center
PO Box 154
Dayton, Ohio 45401

Or call the IBM Fulfillment Center at:

1-800-626-9303
(in Ohio, 1-800-626-9301)

And, remember, dealer ProPlan points can be used to pay for many sales promotion materials.

Note: Z-, ZZ-, and ZV-numbered documents are not available in the IBM Fulfillment Center, Dayton, Ohio, but are stocked in the Fulfillment Center, Mechanicsburg, Pennsylvania and may be ordered via local publication ordering facility.

PERSONAL SYSTEM/2 SYSTEM UNITS

IBM Personal System/2 Family Brochure (G580-0809-03)

The wide range of PS/2 offerings is described in this glossy brochure. The 16-plus pages discuss the benefits that make PS/2 a smart investment for today and tomorrow. All the features that make the PS/2 difference - advanced technology, streamlined design, platform for growth, and more - are covered in an easy-to-read style. Full color photos show the family of PS/2 products running a variety of applications in natural-setting environments. There is also an at-a-glance chart of the basic specifications of each PS/2 system. This classy brochure is a perfect way to get across the PS/2 story to your best customers, top prospects and key decision-makers.

IBM Personal Systems Reference Guide (G360-2669-04)

Get the facts about IBM PS/2 systems, displays, printers, options and software in this 104-page spiral-bound pocket guide. It is loaded with features, functions, benefits and other highlights that show why IBM personal systems offer the best value. This guide is easy to hold, easy to use, and makes it easy for customers to see all the solutions IBM personal systems provide.

IBM Personal System/2 Facts and Features Folder (G360-2832-01)

Now its easy for sales staff to make quick comparisons of all the PS/2 models-and check their options, too. With this handy reference, all it takes is a fast look to find the facts and features you are looking for. An you can keep this vital information within easy reach-just slip the flyer in your pocket or briefcase, or keep it at your desk.

The Micro Channel Advantage Brochure (G360-2839-00)

This high-quality easy-to-read brochure explains the key benefits of the PS/2 Micro Channel Architecture. It is written for the non-technical person who wishes to understand Micro Channel Architecture and what it means to the end user. If you are comparing PS/2 to a PC clone or an IBM PC, this brochure will convince anyone that the PS/2 is the way to go.

"A Closer Look at IBM PS/2 Micro Channel Architecture" First Edition (G320-9782-00)

This newsletter gathers together many Micro Channel articles and internal IBM documents in one reference source. IBM white papers by Dr. Bob Carberry and Chet Health provide in-depth, scholarly discussions of Micro Channel Architecture. Recent trade press articles are included from industry leadership publications.

IBM PS/2 Quick Reference Guide: Features and Benefits (G360-2802-00)

Here is a quick way to see all the hardest-hitting benefits of the PS/2 family. This pocket-size folder holds seven cards that highlight seven key messages - advanced technology, price/ performance, growth, graphics, communications, operating systems, quality/reliability. Just slip out a card and quickly learn about features on one side with the corresponding, more detailed information on the other. The handy folder unfolds to reveal a model comparison chart so you can get the basic facts on the whole family in a flash.

IBM Personal System/2 Family Overview Slide/Foil Presentation (GV38-0298)

The slides and corresponding foils, packaged with a script, offer a quality comprehensive presentation of the most recently announced PS/2 models and options, as well as of the entire PS/2 family.

Marketing Presentation Guides

These sets of foil masters, each packaged with a script, provide the main highlights of the Personal System/2 models. They enable you to take a customer through the many advantages of each respective model, especially as each relates to other

members of the PS/2 family. In addition, each offers some foils on performance benchmark results compared to other IBM PS/2s and PCs. An overview presentation of the PS/2 advanced architecture and technology is provided to help you educate a customer on the overall advantages of any PS/2 model. The scripts are a comprehensive document that bring you up to speed on the products as well as contain good proposal information.
The presentations are ideal for any audience who is interested in learning more about the Personal System/2.

IBM Personal System/2 Model P70 386 Presentation Guide	G320-6710-00
IBM Personal System/2 Model 50 SX Presentation Guide	G220-9792-00
PS/2 Model 50 Z and Model 70 386 Presentation Guide	Z360-2806-00
PS/2 Model 30 286 Presentation Guide	Z360-2821-00
PS/2 Architecture and Technology Presentation Guide	ZV38-0296-01

IBM Personal System/2 Pocket Reference Flyers

There's nothing like the convenience of reaching into your pocket to find just the information you need. This guide contains clear, concise information in an at-a-glance chart and in a feature-function-benefit chart for every PS/2 model. There's a PS/2 family reference flyer that covers all the models and there's a separate reference flyer available for the PS/2 Model 80 386, Model 60, Model 50, Model 30 and Model 25.

IBM Personal System/2 (all models)	G360-2779-02
IBM Personal System/2 Model 80/386	G580-0798-02
IBM Personal System/2 Model 60	G580-0797-00
IBM Personal System/2 Model 50	G580-0796-00
IBM Personal System/2 Model 30	G580-0800-00
IBM Personal System/2 Model 25	G360-2778-01

IBM Personal System/2 Specification Sheets

Each PS/2 specification sheet highlights the features that make the model unique. Designed for easy reference, each spec sheet is neatly divided into short sections on:

* Feature/function/benefits/highlights
* Options
* Warranty/service

* At-a-glance chart of specifications
* Graphic design of under-the-covers portrait

Spec sheets are ideal "leave-behinds" in customer offices and at sales presentations. They're excellent direct mail pieces or proposal inserts.

System Unit Spec Sheets:

IBM Personal System/2 Model 80 386	G580-0795-02
IBM Personal System/2 Model P70 386	G360-2825-00
IBM Personal System/2 Model 70 386	G360-2803-00
IBM Personal System/2 Model 60	G580-0794-00
IBM Personal System/2 Model 50 SX	G234-0025-00
IBM Personal System/2 Model 50 Z	G360-2805-00
IBM Personal System/2 Model 30 286	G360-2820-00
IBM Personal System/2 Model 30	G580-0801-00
IBM Personal System/2 Model 25	G360-2777-01

IBM Personal System/2 Model P70 386 "Day in the Life" brochure (G360-2826-00)

This is a glossy, exciting brochure that shows an end user using the PS/2 Model P70 386 in his travels throughout the day.

IBM Personal System/2 Model 30 286 and IBM Disk Operating System 4.0 Flyer (G360-2823-00)

There is a big story to tell about what the Personal System/2 Model 30 286 and DOS 4.0 can do whey they are paired together. And this flyer tells it all-particularly how the two can put users on the track to higher productivity. Keep a stack of flyers in the Model 30 286 counter card pocket, or hand them out individually. The flyers show how the DOS 4.0/Model 30 286 team can help your customers bring out the best in whatever work they do.

OEM & IBM Hardware Products Catalog for IBM PS/2 Computers with Micro Channel Bus (G360-2824-00)

This Micro Channel products guides helps your customers get the most from their IBM PS/2 Micro Channel systems. It is filled with features and descriptions about IBM and non-IBM hardware that works with the PS/2 Micro Channel Architecture.

The Difference...IBM Personal System/2 Quality Brochure (G360-2816-00)

This brochure says "quality" from its cover to the story inside. It tells how IBM's commitment to quality translates into customer benefits. And, in a special photo spread, it illustrates how IBM continually strives for zero defects through rigorous product testing. From beginning to end, it will be clear to your customers that IBM quality sets IBM Personal System/2 apart from other personal computers.

IBM Personal System/2 Presentation Folder (G360-2818-00)

Here is a handy, professional way to keep promotion or proposal material in one place. An 8 1/2" X 11" folder opens to reveal two pockets for brochures, flyers, pocket guides, spec sheets and more. It is a classy closure to a presentation and a customized "give-away," with slits in the pocket for a business card.

IBM Personal System/2 Posters

The PS/2 message belongs in the limelight, and these posters will help you keep it there. In the family poster, every model is a star. And to make the Model 70 386 or 50 Z the main attraction, there is a poster to give each one special billing. The posters are attention-getters in any conference, presentation, or as a give-away for customer locations.

IBM Personal System/2 Family poster	G360-2814-01
IBM Personal System/2 Model P70 386	G71K-7177-00
IBM Personal System/2 Model 70 386	G360-2802-00
IBM Personal System/2 Model 55 SX	G221-2680-00
IBM Personal System/2 Model 50 Z	G360-2815-00
IBM Personal System/2 Model 30 286	G71K-7175-00

Personal System/2 Software

Specification Sheets:

DOS Version 3.30	G360-2733-00
DOS Version 4.0	G360-2819-00
Operating System Standard Edition Version 1.1	G360-2735-02
Operating System Extended Edition Version 1.1	G360-2833-00
Storyboard Plus	G71K-7057-00
3270 Workstation Program Version 1.1	G360-2734-00
PS/2 RPG II Application Platform/Toolkit	G580-4001-00

Marketing Presentation Guides

To one customer, or many, these marketing foils can guide you through an explanation of OS/2. There is a script with the package to assist you in presenting the foils as well as to clearly convey the key messages for proposals or other marketing tool.

OS/2 Standard Edition	Z360-2752-00
OS/2 Extended Edition Database Manager	Z360-2787-00
OS/2 Extended Edition Communication Manager	Z360-2786-00
Planning for DOS to OS/2	Z360-2788-00
IBM Operating System/2 Promotion Presentation Guide	G320-6709-00

- Provides highlights and details on the OS/2 promotion from May 9 - December 31, 1989

OS/2 Memory and Fixed Disk Capacity Planning Guide (ZZ25-9006-00)

Here is an information-packed guide that clarifies the memory and fixed disk storage capacity requirements of OS/2 Standard Edition (SE) and Extended Edition (EE). It includes product positioning relative to OS/2 SE EE V1.0 and V1.1 capacity requirements and it covers lots of background information.

Operating System/2 Information and Planning Guide (G360-2650-01)

For almost anything you want to know about the Operating System/2, turn to this extensive book. All the product and planning information is right here on the OS/2 Standard Edition and Extended Edition. It is intended for customer technical coordinators and service coordinators, programmers, system administrators, and IBM personnel as well as those who have responsibility for making decisions on information systems.

Personal System/2 Communications

Specification Sheets:

3270 Workstation Program Versions 1.0 and 1.1	G360-2734-00
Token-Ring Network	G360-2645-02
Local Area Network Server Programs	G360-2753-03
PC Network Broadband	G360-2660-02
PC Network Baseband	G360-2754-01
LAN Manager Version 2.0 and	
LAN Manager Entry Version 1.0	G221-4005-00
Token-Ring Network Trace and Performance Tool	G221-4006-00
8232 LAN Channel Station	G221-4009-00

IBM Personal System/2 Connectivity Products (G360-2739-02)

All the IBM PS/2 communications solutions are covered in this high-quality, 4-color brochure - local area networks, display station emulators, communications adapters and associated software. In this one promotional piece, you will have access to information on all the connectivity products of the PS/2 family.

Personal System/2 Printers

Specification Sheets:

Proprinter II and Proprinter IIXL	G360-2755-01
Proprinter III and Proprinter IIIXL	G360-2811-00
Proprinter X24/Proprinter XL24	G360-2643-00
Quickwriter Printer	G360-2801-00
Quietwriter III Printer	G360-2644-00
Quietwriter Printer Model 2	G360-2679-00

IBM Personal Printers Family Brochure (G360-2738-00)

This four color, high quality brochure covers in several pages a net description of the wide printer choices from IBM. It has a handy fold out that shows all the printer specs "at a glance" in addition to a Quick Reference Chart. Glossy photos showing the printers in a real live environment make this deliverable a must for your special customers.

IBM Personal Printers Product Guide (G360-2740-00)

When you need to know all the specs on a printer, just look it up in this handy flyer. There's a page for each printer, each one packed with all the specs and a picture as well.

\IBM Personal Printers Marketing Reference Guide (G71K-7069-00)

Here's a three ring binder containing all the information you need on the printer family. It has nice divider pages for each printer topic and in each section there's a spec sheet, printer samples and heavy card stock pages of feature, function, benefits and highlights. This guide is truly your printer sales tool to help you drive your printer sales way up.

Personal System/2 Displays

Specification Sheets:

Monochrome Display	G580-0807-00
Monochrome Display 8507	G360-2830-00
Color Display 8512	G580-0805-00
Color Display 8513	G580-0804-00
Color Display 8514	G580-0808-00

IBM Personal System/2 Graphics Products Flyer (G580-0808-00)

If you want a summary of all the graphics options available on the PS/2 family, then turn to this handy flyer. It has the specs of each of the displays, as well as a nice easy-to-follow description of the graphics capabilities -- all in one place.

Personal System/2 Storage Products

Specification Sheets:

3.5" Diskettes	G360-2729-00
3.5" External Diskette Drive and 3.5" Internal Diskette Drive	G360-2657-00
5.25" External Diskette Drive (360KB)	G360-2658-00
6157 Streaming Tape Drive	G360-2659-02
Internal Tape Backup Convenience Kit	G360-2810-00
3363 Optical Disk Drive	G360-2656-00

IBM Data Transfer and Data Sharing Options (G360-2828-00)

Now there is information on all the diskette media migration options in one place. This flyer clearly explains all the different enhancement products available that enable a PS/2 user to work with data from a 5.25" diskette as well as a 3.5" diskette. It includes a quick reference chart of all the options and connections.

Miscellaneous Features

Specification Sheet:

PC Music Feature	G360-2679-00

Image Products

Specification Sheet:

PageScanner	G520-6533-00
3117 Scanner	G360-2655-00
3118 Scanner	G360-2727-00
ImagEdit Version 2.0	G520-6534-00
TextReader	G520-6535-00

Not Reorderable Items

The following items were distributed on a one-time-offering basis:

Demonstration Diskettes

These diskettes use exciting graphics to portray the PS/2 story while showing the high-quality video capability of the PS/2. They describe the key features and benefits and show real vivid detail.
In a dealer store, while you are selling to one customer, let a demo diskette help make a sale to another. All you do is set up the demo for customers and let the computer take it from there.

"Personal System/2 Model P70 386 Marketing Demonstration" (May, 1989)
"Personal System/2 Model 50 SX Marketing Demonstration" (May, 1989)
"Personal System/2 Model 50 Z and Model 70 386 Marketing Demonstration" (June 2, 1988)
"Personal System/2 Model 70-A21 Marketing Demonstration" (December 15, 1988)
"Personal System/2 Model 30 286 Marketing Demonstration" (September 13, 1988)
"Personal System/2 Model 25 Marketing Demonstration Version 2.0" (June 2, 1988)
"RPG II Application Platform Demonstration" (September 13, 1988
"Personal System/2: 'The Micro Channel Story'" (December 1, 1988)

Videotapes

A perfect way to view some of the advantages of the PS/2 family is to leisurely watch a videotape. There is not a better way to drive a point home, then to show it in an up-beat, entertaining fashion. Their bound to bring in the sales and raise the level of understanding.

"IBM PS/2 Model P70 386 Videotape" (May, 1989)
    -- High-quality videotape that highlights the many advantages of the Model P70 386. Customers who have used the Model P70 386 discuss how this new PS/2 has been the ideal solution for their computing needs.

"IBM PS/2 Model 70 386 Covers Off Demonstration" (June 2, 1988)
    -- 8.5 minutes -- demonstrates the quality and reliability of the IBM PS/2 Model 70 386 and the its inherent advantages over competitive machines.

"Model 30 286 Product Overview" (September 13, 1988)
    -- 8.5 minutes -- covers an overview of the Model 30 286 as well as a question-and-answer session with Bill Lowe, president of ESD, and Dave Thomas, president of NDD.

"PS/2 Micro Channel and OS/2: The Customers Speak" (May, 1989)
    -- Videotape that shares the perspective of seven customers on why they chose IBM PS/2 and OS/2 as their Personal System of choice, and the tangible benefits they derive today.

"The Micro Channel Presentation with Dr. Robert Carberry" May, 1989)
    -- Dr. Carberry, Vice President of IBM Entry Systems Division, gives clear, concise explanation of Micro Channel architecture
    -- Shows Micro Channel busmaster demostrations shown at 1989 Spring Comdex

"Operating System/2: The Facts" (November, 1988)
    -- 17.5 minutes -- gives an in-depth technical overview via live demonstration of the Operating System/2.

"IBM PS/2 Micro Channel Architecture: The Industry Speaks" (December 1, 1988)
    -- 12 minutes -- demonstrates the acceptance of OS/2 and the PS/2 as new industry standards. It features interviews with leading software developer executives and explanations of some of the key benefits of Micro Channel. Coverage of COMDEX/Fall '88 IBM exhibitions with Micro Channel demonstrations and highlights are also included.

"PS/2 Micro Channel and OS/2 Videotape" from IBM United Kingdom (December 1, 1988)
-- contains two fresh and entertaining segments. The first is a unique presentation on the advantages of Micro Channel Architecture over the old PC and AT bus. The second is a very clear and straightforward scenario which demonstrates the business benefits of OS/2.

IBM Personal System/2 Family Overview Slide Set (June 2, 1988)

At your next presentation, just turn out the lights and let this slide set show what a bright choice the PS/2 family is. Each slide is like a mini-billboard, clearly outlining the family's major features. The set comes with a script to guide you through the slides.

OS/2 Applications Guide

It is not easy keeping up with the ever-expanding applications for IBM Operating System/2, but this guide can help you do it. A revised edition was released for Comdex, May '89 and distributed to IBM internal locations and to IBM Authorized Remarketers of advanced products.. It contains information on over 800 OS/2 application programs that are announced and available. There are applications listed from both IBM and other software developers that range from accounting to word processing. Product information...hardware and software requirements...company names...and more - it is all in this guide. And it is all easy to find.

IBM Personal System/2 Performance Guides

These guide describes how the specific Personal System/2 models perform relative to each other and to previously announced IBM Personal System/2 models and, in some cases, to the IBM Personal Computers. In achieving these measurements, representative applications are used to measure system throughput, which is the ability of a system to do useful work in a measurable unit of time. By utilizing actual application scenarios, the guides enable a user to choose a system that best meets their performance requirements.

IBM Personal System/2 Model 55 SX Performance Guide   (May, 1989)
IBM Personal System/2 Model 70 386 and 50 Z   (June, 1988)

![IBM logo]
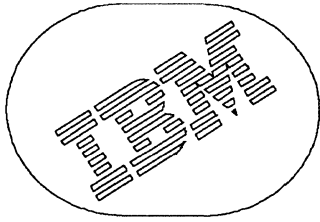
Personal System/2 & Printer Sales Advisor

Programs, Promotions, and Education

International Business Machines Corporation

IBM CUSTOMER CALL PROGRAM

DESCRIPTION

This is a single customer call program for all IBM authorized PS/2 remarketers. For you, the IBM Authorized PC Dealers and Industry Remarketers - PC, it includes all the Personal System/2™ and PC related products and all IBM approved value add Applications. It enables you and our IBM Sales team to work together to bring the best solutions possible to our customers.

BENEFITS

The partnership between you and the IBM sales team is made clear to your customers, solidifying IBM's commitment to you, our business partners.

Maximizes the sales resource to ensure the customer receives all the information required to make the best buying decision and the best total business solution.

Ultimately leads to the highest level of customer satisfaction possible.

Results in increased sales of IBM products and solutions through IBM Authorized PS/2 Remarketers, which is the goal we are all working toward.

REMARKETER GUIDELINES

The approval process is simple, once the criteria are met. You must sign a letter of understanding which explains the terms and conditions of call. The NDD branch confirms that the customer is in agreement to the call and is responsible for administering the program.

CRITERIA

The request to have a joint marketing call can be initiated by you, your customer or an IBM representative.

Confirmation of the Customer's agreement to a joint call.

Minimum opportunity to sell 50 system units to qualify.

A discussion of the following items may take place: Your customer's solutions requirements, IBM products and support and your support and value add.

There should be no discussion of prices, terms or conditions during the meeting.

There should be no discussion of products and solutions competitive to IBM or their pricing.

CONTACT

NDD or U.S. M&S Marketing Representative.

CUSTOMER FULFILMENT OPTION (CFO)

DESCRIPTION

CFO is established to provide customers flexibility in obtaining PS/2 products. IBM will give volume procurement agreement (VPA) credit to a customer based on products obtained from a remarketer.

A significant enhancement to the CFO programs is the addition of PC software, which provides you with the total IBM solution for your volume purchasing customers.

BENEFITS

A Remarketer can be chosen by a customer who has signed a VPA with IBM, for delivery and support of PS/2 products. This provides a choice to the customer and encourages your participation. CFO also enhances the IBM direct channel and Remarketer relationship, providing a stronger bond between IBM direct Marketing, our customers and our business partners.

REMARKETER GUIDELINES

You establish your own terms and conditions with the end user. When a certification for IBM Customer Fulfillment Option is submitted by the customer, the contract volumes are updated and sales plan commission flows to the direct marketing Representative. IBM will accept the quantity purchased from the Remarketers as credit towards their contract commitment.

REFERENCE

Green letter NDD 86-300 dated 06/16/86.
Green letter NDD 88-419 dated 09/06/88.

REMARKETEER EXECUTIVE
BRIEFING/PLANNING PROGRAM

DESCRIPTION

This program consists of three (3) individually tailored sessions: briefing sessions for remarketer executives, planning sessions designed to facilitate attainment of our mutual objectives, and briefings for your customers and prospects. Sessions are conducted in Boca Raton.

BENEFITS

Helps you sell IBM
Enhances our business partnership
Improves your sales productivity
Solidifies our mutual understanding
Increases your awareness and use of IBM support

REMARKETER GUIDELINES

Arrangements for any of the sessions are made through your NDD Dealer Account Representative, normally 4-6 weeks in advance. You and your customers/prospects may take advantage of the IBM corporate jet as available. Expenses are reimbursable through ProPlan.

REFERENCE OR CONTACT

NDD Dealer Account Representative.

BUSINESS SHOW PROGRAM

DESCRIPTION

A program of planned participation in major industry, end user and Remarketer- Sponsored business shows and special events to promote awareness and acceptance of IBM Personal Computer Products.

BENEFITS

Benefits accrue directly to you when we participate in direct support of your sales or educational efforts. Indirect benefits from IBM presence at major industry and end user shows accrue to IBM Remarketers collectively.

REMARKETER GUIDELINES

By special arrangement limited show support is available for your meetings and end user shows. The local remarketer booth program is designed to satisfy most of your requests.

REFERENCE OR CONTACT

Contact your NDD Dealer Account Representative.

OUTBOUND SUPPORT PROGRAMS

DESCRIPTION

This program includes major NDD road shows such as PS/2 Forums as well as planned participation in Remarketer Seminars and Seminars designed for your customers/prospects. IBM participation is usually directed to orientation/education on new product offerings.

BENEFITS

This program makes it possible for more of your customers and prospects to hear firsthand about the excellence of IBM products and programs directly from IBM.

REMARKETER GUIDELINES

You are encourage to take maximum advantage of major road shows for you and your customers/prospects, as appropriate.

REFERENCE OR CONTACT

Requests for IBM participation in Remarketer-sponsored seminars should be directed to your NDD IBM Dealer Account Representative.

IBM BUSINESS PARTNER'S SERVICE PROGRAM

DESCRIPTION

With this program, you the IBM Authorized Dealers and Industry Remarketer of IBM Personal System/2 have become the primary providers of service solutions for these products.

IBM will :
- Provide Remarketers and Dealers the opportunity to propose the service solution in joint calls with IBM representatives.

- Designate managers in field locations to act as liaison between IBM's National Service Division (NSD) and you, our Business Partners.

- Provide a greater level of parts availability and better means to manage parts inventory.

- Provide on-site technical assistance to Remarketers and Dealers directly from field locations.

IBM will also provide new opportunities for Business Partners to profit from the marketing of service:

- Providing Remarketers and Dealers the means to remarket IBM service.

- Giving primary consideration to Business partners as subcontractors to IBM for service of non-IBM products.

REMARKETER GUIDELINES

The Customer Call Program, announced on October 25, 1988, specifies participation of a selected Business Partner in proposing a service solution at a time of a joint call.

In presenting the service solution, the Remarketer or Dealer may propose a combination of his service and IBM service. Through this process, our Business Partners will be recognized as key marketers and provider of service for the IBM Personal System/2.

BENEFITS

By combining your value add service with the expertise and resource of the IBM service organization, you are now able to formulate, propose and deliver to your customers premier service solutions for IBM PS/2 products.

REFERENCE

Green Letter NDD 88-601 dated 10/25/88
Green Letter NDD 89-123 dated 03/07/89

PS/2 Forum
Right For Today, Ready for Tomorrow

DESCRIPTION

IBM is conducting one-day conferences for customers involved with Personal System/2 hardware and software buying decisions. Speakers from IBM development as well as leading industry software developers will present and demostrate the lastest applications and benefits of the IBM PS/2.

General Session:

Area Welcome
- Executive Perspective

- "Interruptions" Film

Business Applications Demonstrations:

Numerous IBM and software developer demonstrations including:
- Advanced Business Microsystems, Inc.

- California Software Products, Inc.

- Intelligent Environments

- Symantec

- Plus the companies listed below

Breakout Session:

Benefits of PS/2 Architecture and Technology	Aldus
PS/2 Operating System Positioning	Ashton-Tate
OS/2 End User Advantages	Borland
OS/2 Extended Edition Enhancements	Lotus
DisplayWrite 5/2	Micrografx
PS/2 Publishing	Microrim
PS/2 AIX Advantages	Microsoft
PS/2 Local Area Network	Wordperfect
	Z Soft

PS/2 Forum
Right For Today, Ready for Tomorrow

The PS/2 Forums for the **South Central Area** of NDD will be offered on:

April 18-19

North Raleigh Hilton
3415 Old Wake Forest Road
Raleigh, North Carolina 27609

May 3-4

Marriot Marquis
265 Peachtree Center Ave.
Atlanta, Georgia 30303

May 23-25

Radisson Mark Plaza
I-395 and Seminary Rd. W.
Alexandria, Virginia 22311

May 31-June 1

Hyatt Regency O'Hare
9300 West Bryn Mawr Ave.
Rosemont, Illinois 60018

July 19-20

Sheraton St. Louis
920 N 7th Street
St. Louis, Missouri 63101

The PS/2 Forums for the **Northeast Area** of NDD will be offered on:

April 26-27

Hynes Convention Center
800 Boylston Street
Boston, Massachusetts 02115

May 8-9

Princeton Marriot
201 Village Boulevard
Princeton, New Jersy 08450

May 11-12

Marriot Marquis
1525 Broadway
New York, New York 10036

June 8-9

COBO Conference Center
One Washington Blvd.
Detroit, Michigan 48226

The PS/2 Forums for the **Western Area** of NDD will be offered on:

May 17-18

Hyatt Regency Houston
1200 Louisana Street
Houston, Texas 77002

June 14-15

The Grand Hotel
4747 South Howell Ave.
Milwaukee, Wisconsin 53207

June 19-20

Los Angeles Airport Marriott
5855 West Century Blvd.
Los Angeles, California 90045

June 28-29

Hyatt Regrency Embaracadero
5 Embaracadero Center
San Francisco, 94111

The Forum program begins at 8:30 a. m. and closes at 6:00 p.m.. Registration opens at .8 a.m..
To enroll call: 1-800-937-3737

BUSINESS PARTNER EDUCATION
NEW APD CURRICULUM

SALES and MARKETING

1) **COURSE TITLE:** Personal Systems Training Library

DESCRIPTION: In-house, self-study training and reference material on IBM Personal System/2, Selling Data Communications, OS/2, IBM Personal Printers and business applications.

AUDIENCE: APD and IR-PC Marketing Personnel

MATERIALS: Seven (7) volumes covering PS/2 product knowledge, VHS video tapes, and a 3.5" 1.44MB diskette to be used as the student's personal "Library Card".

DURATION: Between 20 and 40 hours of study time

2) **COURSE TITLE:** Personal Systems Marketing

DESCRIPTION: A 2-day marketing course for all APD representatives on PS/2 products. Completion of Training Library is a prerequisite.

AUDIENCE: APD and IR-PC Marketing Personnel

AGENDA: PS/2 Products
OS/2 Products
IBM Networks
Selling in a competitive environment
Presenting IBM Solutions
IBM Marketing Support/Programs

DURATION: 2 days

3) **COURSE TITLE:** Personal Systems Advanced Marketing

DESCRIPTION: A 3-day optional marketing course for APD representatives on high level PC marketing skills.
One year field experience is recommended.

AUDIENCE: APD and IR-PC Marketing Personnel

AGENDA: Building trust and rapport
Discovering customer needs
Presenting solutions
Selling value
Building account plans
Ensuring customer satisfaction

DURATION: 3 days

BUSINESS PARTNER EDUCATION
NEW APD CURRICULUM

TECHNICAL

1) COURSE TITLE: Implementing DOS Connectivity

    DESCRIPTION: Hands-on course covering DOS operating environment and full range of IBM connectivity solutions.

    AUDIENCE: APD & IR-PC Technical Support Reps.(TSR)

    AGENDA: Connectivity/Operating Systems Overview
            LAN Hardware
            LAN Software
            LAN Network bridging/gateways to host
            LAN Network management/tuning
            Asynchronous connection server
            Terminal Emulation/host considerations

    DURATION: 4 days

2) COURSE TITLE: Implementing OS/2 Extended Edition

    DESCRIPTION: Hands-on course covering all aspects of OS/2 Extended Edition.

    AUDIENCE: APD & IR-PC Technical Support Reps.(TSR)

    AGENDA: OS/2 Extended Edition Installation
            Communication Manager (Features/Lab)
            - Configurations
            - Host Communications
            - LAN requester functions
            Presentation Manager
            Data Base Manager Introduction
            OS/2 LAN Server Program

    DURATION: 3 days

Technical self-study modules will be introduced in second quarter 1989.

PRINCIPAL 1989 COURSES - PCD

COURSE TITLE	AUDIENCE	TYPE
Personal Systems Training Library	Marketing	Self-Study
Personal Systems Marketing	Marketing	Classroom
Personal Systems Advanced Marketing	Marketing	Classroom
Implementing DOS Connectivity	TSR	Class/Lab
Implementing OS/2 EE	TSR	Class/Lab
5363 Service	Service	Class/Lab
5363 Marketing/Support	Mkt/TSR	Class/Lab
RT-PC Marketing/Support	Mkt/TSR	Class/Lab
SolutionPac	Mkt/TSR	Class/Lab
Personal Publishing	Mkt/TSR	Class/Lab
CES	Marketing	Self-Study
AIX	Mkt/TSR	Planned
RPGII Application Platform	Mkt/TSR	Planned

For more information contact your IBM NDD Dealer Representative.
For schedule information or to enroll in a class dial 800-937-3737.

NDD BUSINESS PARTNER TRAINING CENTERS

IBM Corporation
One IBM Plaza
Chicago, IL 60611

IBM Corporation
1501 LBJ Freeway
Dallas, TX 72234

IBM Corporation
65 E 55th Street
New York, NY 10022

IBM Corporation
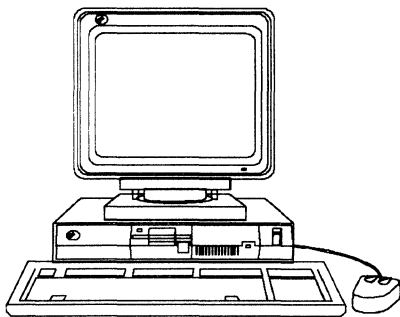425 Market Street
San Francisco, CA 94105

IBM Corporation
2500 Windy Ridge Parkway
Marietta, GA 30067
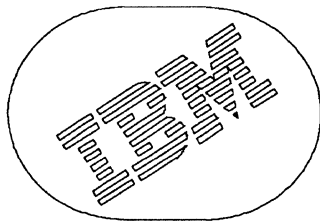
IBM Telephone Numbers

Personal System/2 & Printer Sales Advisor

International Business Machines Corporation

IBM Corporation - NDD 201/930-3000
 101 Paragon Drive
 Montvale, NJ 07645

IBM NDD Northeastern Area 212/745-5604
 590 Madison Avenue, 9th Floor
 New York, NY 10022

 IBM NDD Eastern Region 203/846-5350
 201 Merritt Seven
 Norwalk, CT 06852

 IBM NDD North Central Region 215/851-4000
 2005 Market St. 5th Floor
 Philadelphia, PA 19103

IBM NDD South Central Area 404/877-4500
 One Atlantic Center
 1201 W. Peachtree Street, NE
 Atlanta, GA 30357-1200

 IBM NDD Capitol Region 301/961-7600
 9200 Corporate Blvd.
 Rockville, MD 20850

 IBM NDD Central Region 312/245-2400
 One IBM Plaza
 Chicago, IL 60611

 IBM NDD Southern Region 404/877-4500
 One Atlantic Center
 1201 W. Peachtree Street, NE
 Atlanta, GA 30367

IBM NDD Western Area 415/545-2200
 425 Market Street, 25th Floor
 San Francisco, CA 94105-2406

 IBM NDD Mid-America Region 214/406-7879
 1501 LBJ Freeway Suite 300
 Dallas, TX 75234

 IBM NDD Western Region 415/545-2200
 425 Market Street, 32nd Floor
 San Francisco, CA 94105

IBM Telephone Numbers

IBM NDD Branch Offices

NDD EASTERN REGION

IBM Branch Office
201 Merritt 7
Norwalk, CT 06852
203/846-5350

IBM Branch Office
One Copley Place
Boston, MA 02116
617/638-1800

IBM Branch Office
909 Third Avenue
New York, NY 10022
212/848-2300

NDD NORTH CENTRAL REGION

IBM Branch Office
399 Thornall Street
Edison, NJ 08818
201/632-4000

IBM Branch Office
2005 Market Street
Philadelphia, PA 19103
215/851-4000

IBM Branch Office
27800 NW Highway
Southfield, MI 48086
313/262-3400

IBM Branch Office
580 Walnut Street
Cincinnati, OH 45202
513/762-2342

IBM Suboffice
4 Allegheny Center
Pittsburg, PA 15212
412/237-2800

NDD SOUTHERN REGION

IBM Branch Office
1201 W Peachtree Street NE
Atlanta, GA 30367-1200
404/877-4600

IBM Branch Office
1201 W Peachtree Street NE
Atlanta, GA 30367-1200
404/877-4700

IBM Branch Office
6301 NW 5th Way
PO Box 497000
Ft Lauderdale, FL 33309
305/493-5708

IBM Suboffice
315 East Robinson
Orlando, Fl 32801
407/849-9100

IBM NDD Branch Offices

NDD CENTRAL REGION

IBM Branch Office
One IBM Plaza
Chicago, IL 60611
312/245-2000

IBM Branch Office
1701 Golf Road
Rolling Meadows, IL 60008
312/981-6448

IBM Branch Office
2345 Grand Avenue
Kansas City, MO 64108
816/556-6000

IBM Suboffice
500 Maryville College Drive
St. Louis, MO 63141
314/469-4000

NDD CAPITOL REGION

IBM Branch Office
4350 Eastwest Highwy
Bethesda, MD 20814
301/961-4800

IBM Branch Office
4350 East west Highway
Bethesda, MD 20814
301/961-4700

IBM Branch Office
4601 Park Road
Charlotte, NC 28209
704/554-4992

NDD WESTERN REGION

IBM Branch Office
425 Market Street
San Francisco, CA 94105
415/545-5780

IBM Branch Office
355 Grand Avenue
Los Angles, CA 90071
213/621-6594

IBM Branch Office
2099 Gateway Place
San Jose, Ca 95110
408/452-2400

NDD MID-AMERICA REGION

IBM Branch Office
Two River Road
Houston, TX 77056
713/940-1952

IBM Branch Office
1603 LBJ Freeway
Dallas, TX 75234
214/888-4900

IBM Branch Office
7900 East Union Blvd
Denver, CO 80237
303/773-5759

IBM Branch Office
111 Washington Avenue South
Minneapolis, MN 55401
612/337-6552

IBM Telephone Numbers

IBM Telephone Numbers
(Only for IBM Authorized Dealers)

National Support Center	- Technical support for hw and sw	800/426-7763
Software Support Center	- Fixes/defect support for DOS 4.0 & OS/2 (Only reg. Service Coordinators can call)	800/237-5511
Direct Warranty Claims Center		800/759-7483
Advertising Audit Service	- ProPlan Cooperative Advertising	800/356-1353
IBM Supplies Hotline	- Pricing and product information - Technical inquiries	800/426-3325 800/654-3462
IBM Deal	- RICS/CSS - Pricing/Availability - Status of Orders - Referral Numbers	800/426-3325
Education	- Education enrollment	800/937-3737
IBM Credit Corporation	- Commercial Lease	800/532-7677
SRA Direct	- Order SRA products	800/772-1277
IBM National Parts Center	- Order Parts - Out of Warranty exchng. Parts - Return Parts - Replacement Cartons	303/924-4125 303/924-4319 303/924-4321 303/924-4125
IBM Books & Special Promotions	- Order Technical Reference Manuals, administer PC promotions	800/426-7282
International Mktg Information		914/686-3632
IBM Fulfillment Center	- Market Support & Promo. Mat'l.	800/626-9303
Software Sales	- Telephone order entry - IBM PC software ordering	800/327-5711
Software Showcase	- Consignment program for IBM strategic software products	404/988-2950

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Replacement Cartons

Replacement exterior cartons are available to replace cartons damaged in shipping. Replacement cartons are no-charge items and may be ordered by calling 303/924-4125. They will be shipped from the IBM National Parts Center in Lexington, Kentucky.

Products will not be accepted for return if repackaged in replacement cartons. If you have any questions concerning replacement cartons, please contact your IBM account adminstrator.

This is the complete list of available replacement cartons:

	Product	Part Number		Product	Part Number
3812	Pageprinter	6934116	5202	Quietwriter III Printer	7343342
4201	Proprinter	04F5125	5204	Quickwriter Printer	7343342
4202	Proprinter XL	04F5124	5216	Wheelprinter	7343342
4207	Proprinter X24	04F5125	5223	Wheelprinter-E	7343342
4208	Proprinter XL24	04F5124	5364	PC/36 System Unit	6202176
4210	Proprinter II	04F5124	8503	PS/2 Mono Display	90X8108
4860	PCjr System Unit	1503526	8525	PS/2 System Unit	16F0048
5140	PCC System Unit	60X5543	8530	PS/2 System Unit	16F0030
5144	PCC Mono Display	60X5528	8550	PS/2 System Unit	90X8847
5145	PCC Color Display	60X5525	8560	PS/2 System Unit	90X8849
5150	PC System Unit	6448502	8570	PS/2 System Unit	90X8847
5151	PC Mono Display	68X3911	8580	PS/2 System Unit	90X8849
5153	PC Color Display	6937179	8580	311 PS/2 System Unit	15F6870
5154	Color Display	6937179	8512	Color Display (USA)	83X9427
5160	PCXT System Unit	6448506	8512	Color Display (Taiwan)	72X7953
5162	XT-286 System Unit	62X1010	8513	Color Display (USA)	69X8201
5170	PCAT System Unit	6182156	8513	Color Display (Taiwan)	72X8625
5181	Compact Printer	6323475	8514	Color Display	75X8290
5182	Color Printer	6182155		PC/PCXT Keyboard	6937023
5201	Quietwriter Printer	7343342		PCAT Keyboard	6182046
				PS/2 Keyboard	61X8658

IBM Telephone Numbers

ADDITIONAL CONTACTS

Name/Address   Phone

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