14

AS/400e 500, 510, and 530 models

AS/400e 5xx systems are 9404 and 9406 processors.

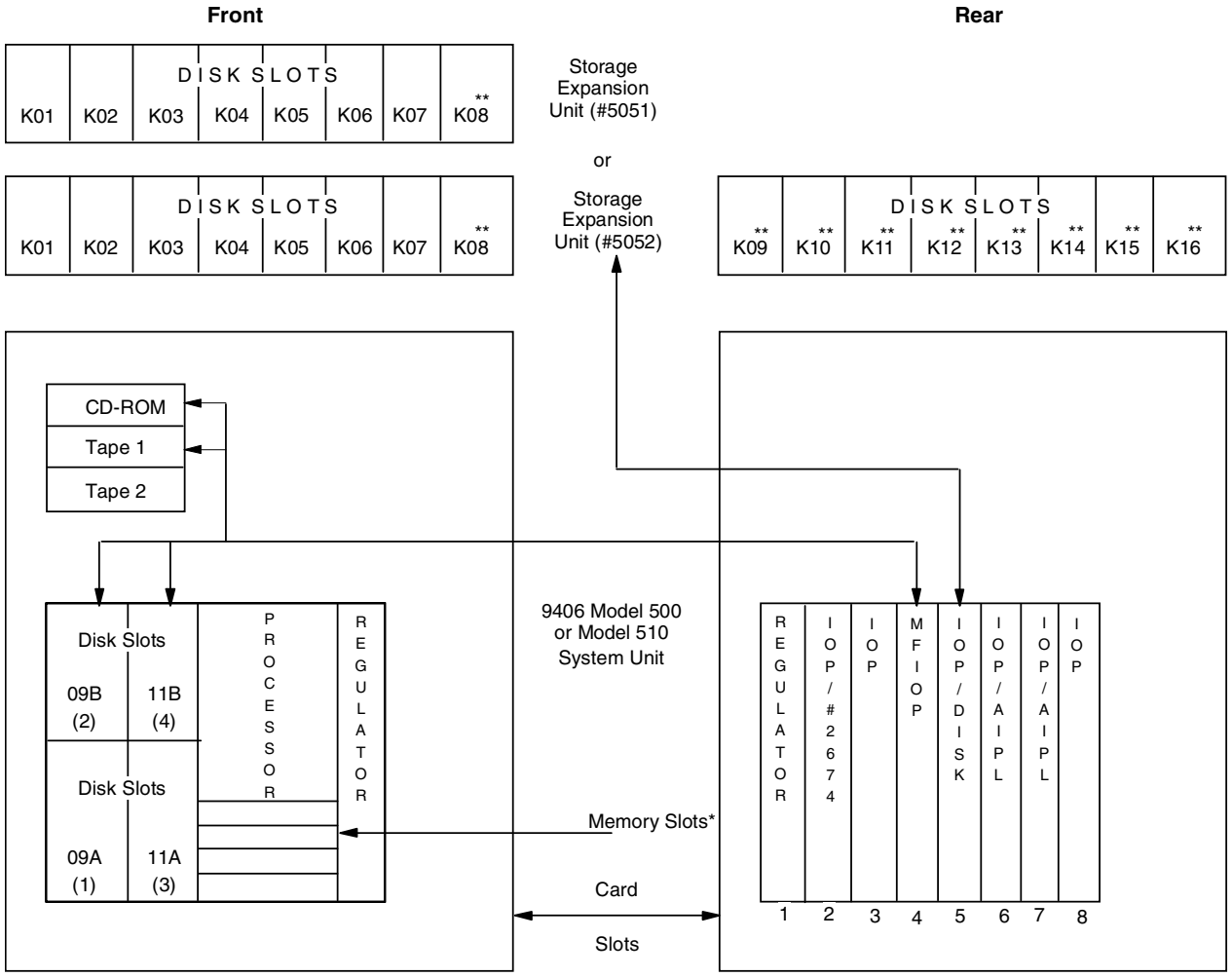
Model	General availability	Withdrawn from marketing
5xx	01 September 1995	30 June 1998

14.1 AS/400e 500, 510, and 530 models overview

Model	500			510		530				
Processor feature	**#2140**	**#2141**	**#2142**	**#2143**	**#2144**	**#2150**	**#2151**	**#2152**	**#2153**	**#2162**
Relative system performance (CPW-V3R6) (see note 1)	18.7	26.9	38.3	66.7	85.0	107.1	132.5	198.7	299.0	349.8
Relative system performance (CPW-V3R7) (see note 1)	21.4	30.7	43.9	77.7	104.2	131.1	162.7	278.8	459.3	509.9
Relative system performance (CPW-V4) (see note 1)	21.4	30.7	43.9	81.6	111.5	148.0	188.2	319.0	598.0	650.0
Relative system performance (RAMP-C) (see note 2)	6.4	9.3	12.6	21.6	28.5	37.4	48.9	74.0	119.2	†
Number of n-way multiprocessors	1	1	1	1	1	1	1	2	4	4
Main storage (MB)	64-768	64-768	64-1024	256-1024	256-1024	512-4096	512-4096	512-4096	512-4096	512-4096
Disk storage base (GB)										
V3R6/R7		1.96			1.96			1.96		
V4		4.19			4.19			4.19		
Maximum internal-GB										
V3R6/R7		150.99			318.76			520.09		
V4		652.80			652.80			996.40		
Maximum external-GB										
V3R6/R7		134.21			301.98			503.31		
V4		618.40			618.40			962.00		
Maximum combined-GB										
V3R6/R7		150.99			318.76			520.09		
V4		652.80			652.80			996.40		
Disk unit IOPS								0-37		
Internal		0-13			0-13					
External		0-16			0-28					
Minimum feature card slots		6			6			4		
Maximum feature card slots		83			83			238		
Communication lines		1-33			1-96			1-200		
LAN ports		0-16			0-16			0-32		
ATM ports		0-8			0-8			0-16		
Maximum workstation controllers										
Twinaxial/ASCII/										
LocalTalk		35			60			175		
Maximum workstations-1 minim.										
Twinaxial		1400			2400			7000		
ASCII		630			1080			3150		
LocalTalk		1085			1860			5425		
¼-inch/8mm cartridge tape (internal)		0-9			0-17			0-17		
½-inch tape										
9348/2440		0-4			0-4			0-4		
34xx/35xx		0-4			0-4			0-4		
8mm cartridge tape (external)		0-4			0-4			0-4		
Tape libraries		0-2			0-2			0-2		
Optical libraries		0-14			0-14			0-22		
Diskettes (5¼-inch or 8-inch)		0-2			0-2			0-2		
Fax adapters		0-16			0-32			0-32		
Cryptographic processors		0-1			0-1			0-1		
System I/O buses		1-7			1-7			1-19		
System expansion										
#507x/#508x		0-6			0-6			0-18		
Bus extension										
#5044		0-3			0-3			0-9		
Storage expansion										
#5051		0-1			0-1					
#5052/#5058		0-7			0-7			0-18		
#8052/#9051								1		

Note 1	Commercial Processing Workload (CPW) is used to measure the performance of all iSeries and AS/400e processors announced from September 1996 onward. The CPW value is measured on maximum configurations. The type and number of disk devices, the number of workstation controllers, the amount of memory, the system model, other factors, and the application being run determine what performance is achievable.
Note 2	The relative system performance ratios are estimated based on iSeries and AS/400e environment RAMP-C workload, with a 9404 Model B10 with 16 MB of main storage and 945 MB of disk equalling 1.0. The ratios shown were estimated at maximum configurations running at 70% utilization. Relative system performance ratios may not be realized in all environments.
†	Processors announced in September 1996 and later do not have RAMP-C performance measurements. See note 1.

14.2 9406 Model 500 and 510 system unit



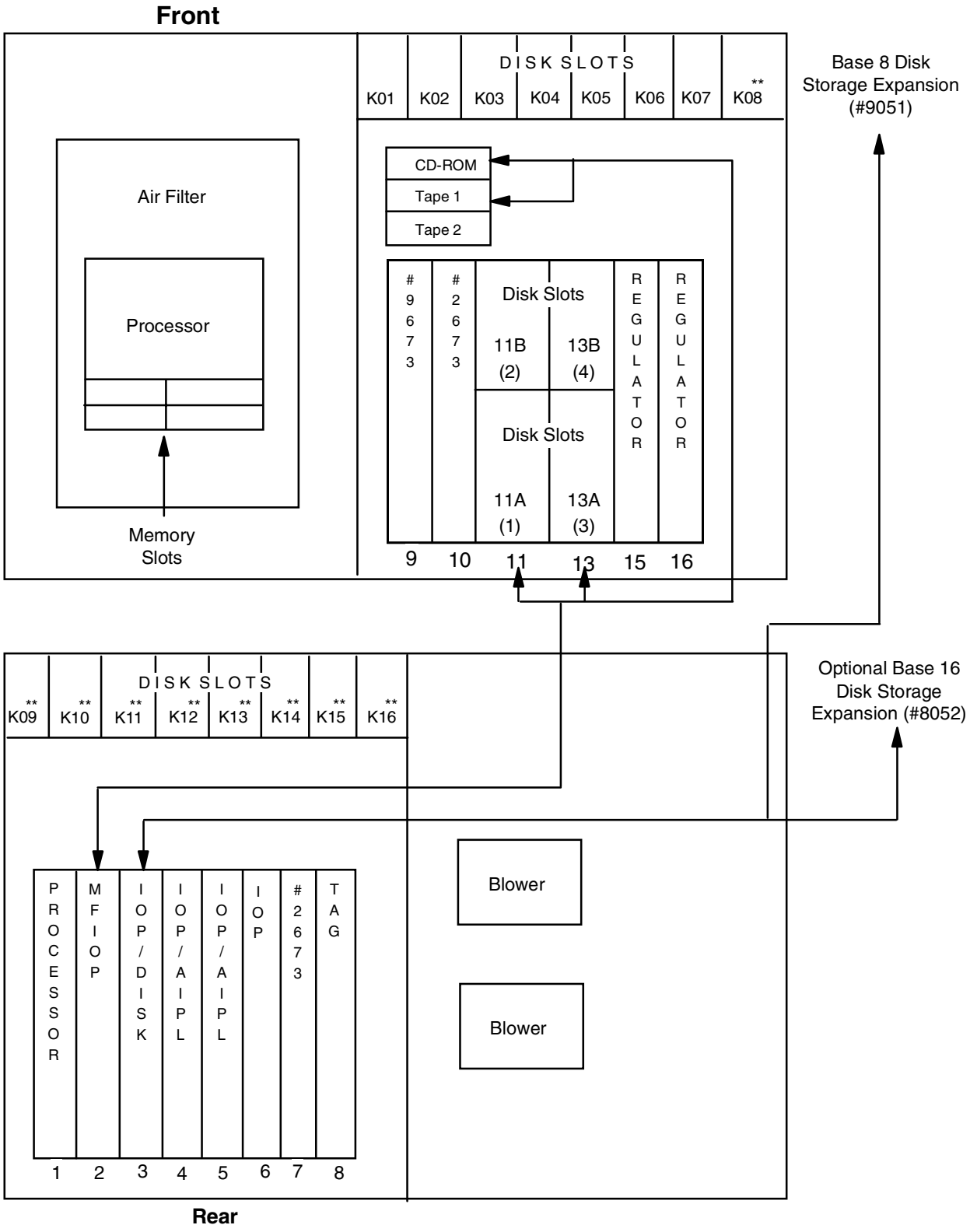
** One-byte DASD cannot be installed in disk slots 8 through 16

* Fourth memory slot available on Model 500-2142 and Model 510 only.

Notes:

1. If the #5051 or #5052 Storage Expansion Unit is installed, slot 5 is occupied by the #6502, #6512, #6530, #6532, or #6533 RAID Disk Unit Controller card.
2. If the #2674 Optical Bus Adapter is installed, it must occupy slot 2.
3. If an external tape unit is used for alternate IPL, then the tape controller card to which it is attached would be in slot 6 or slot 7.
4. The base 9406 Model 500 and Model 510 does not include a tape drive as standard. The #2624 or #6513 is required to support the second internal tape.
5. Main storage cards are installed on the processor card and require one slot each. There are three slots on the #2140 and #2141 Model 500 and four on the #2142 Model 500 and Model 510. On the #2142 Model 500 and the Model 510, the main storage cards must be added in pairs of equal capacity.

14.3 9406 Model 530 system unit

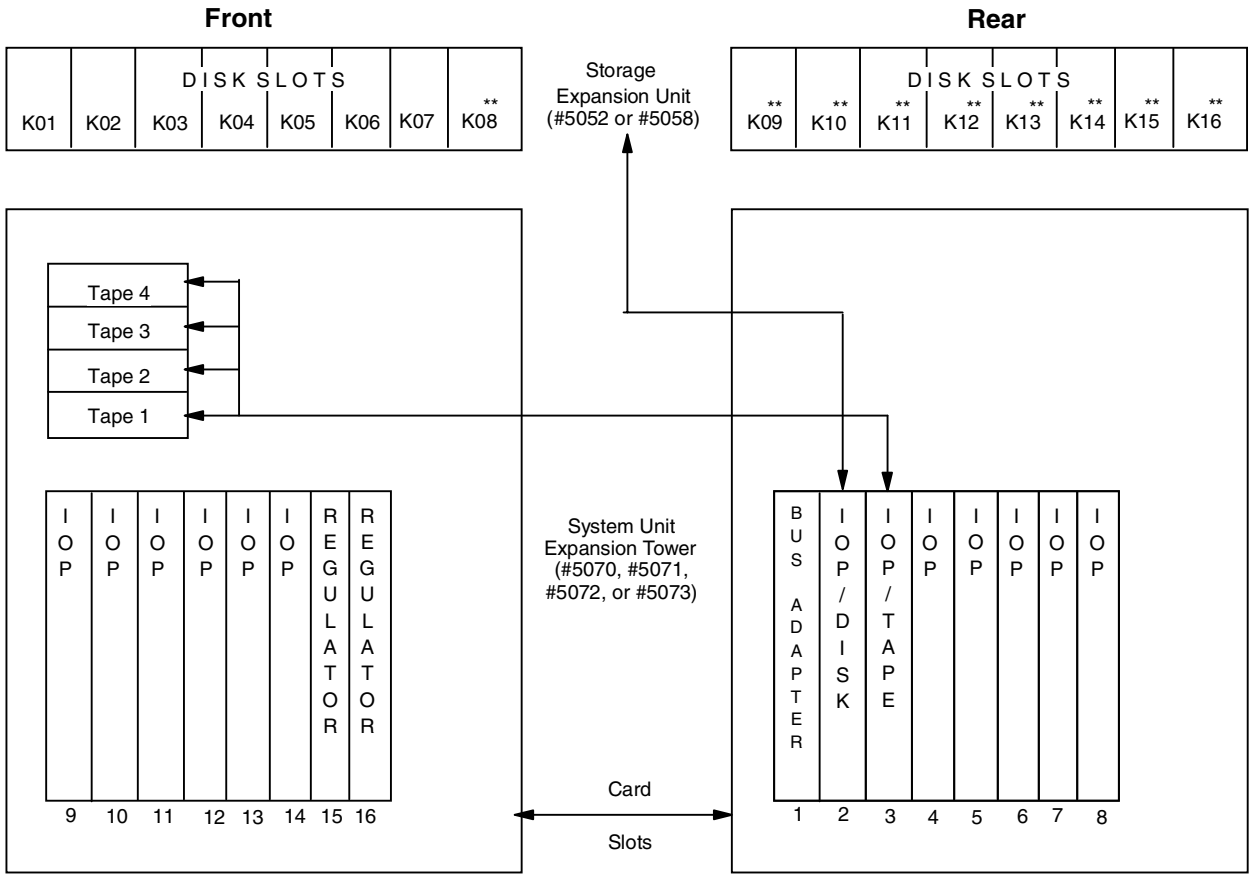


** One-byte disks cannot be installed in disk slots 8 through 16.

Notes:

1. The #8052 Optional Base 16 Disk Storage Expansion Unit increases the number of disks supported in the system unit from 8 to 16.
2. The #9673 base and #2673 Optical Bus Adapters occupy slot 9 and slot 10.
3. If a 3590 Tape Device is attached to the system unit bus, no disk controller cards other than the MFIOP can be used on bus 0. This means that #9051 and #8052 are not supported.
4. If an external tape unit is used for alternate IPL, the tape controller card to which it is attached would be in slot 4 or slot 5.
5. The base 9406 Model 530 does not include a tape drive as standard. The #2624 or #6513 is required to support the second internal tape.
6. Main storage cards are installed on the processor board and require one slot each. There are four slots on the Model 530, and main storage cards must be added in pairs of equal capacity.

14.4 #507x System Unit Expansion Tower and Storage Expansion Unit



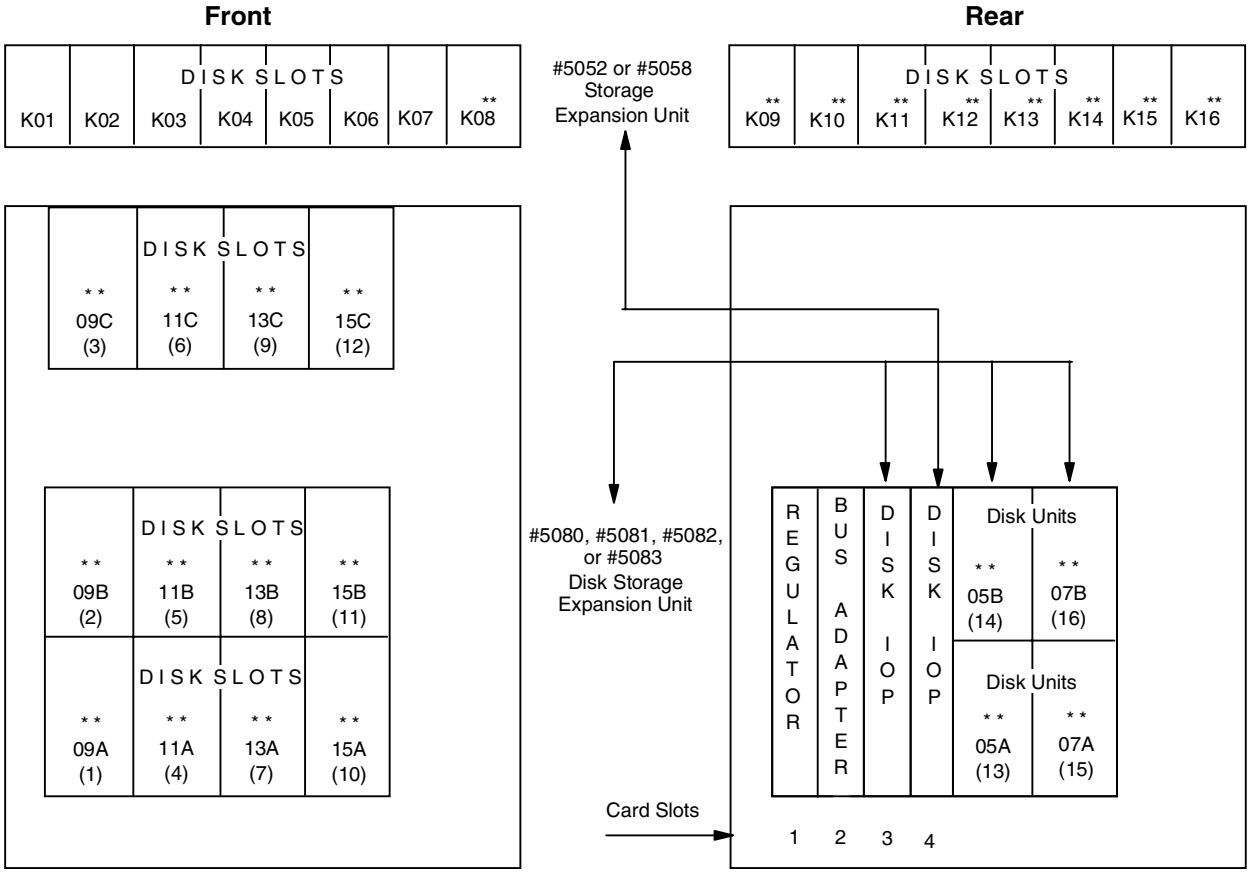
** One-byte disks cannot be installed in disk slots K08 through K16.

Notes:

1. The #5070 and #5071 are supported on 9406 Models 500 and 510. The #5072 and #5073 are supported on the 9406 Model 530.
2. The #5071 and #5073 support the #5058, which is Ultra SCSI. The #5070 and #5072 are fast SCSI and support the #5052.
3. Slot 1 is occupied by the Bus adapter card.
4. Slot 2 is occupied by the #6502, #6512, #6530, #6532, or #6533 disk controller card if #5052 or #5058 is attached.
5. Slot 3 is occupied by #2624 or #6513 if the #5070, #5071, #5072, or #5073 contains internal tape units.
6. Slots 4 through 14 are available for I/O feature cards.

14.5 #5080, #5081, or #5083 Storage Expansion Unit

This diagram illustrates the #5080, #5081, and #5083 Storage Expansion Units supported by the Model 500, 510, and 530.



** One-byte disks are not supported in these disk slots.

Notes:

1. The #5080 and #5081 are supported on the 9406 Models 500 and 510. The #5082 and #5083 are supported on the 9406 Model 530.

2. The #5081 and #5083 are used for Ultra SCSI disks and support the #5058, which is also Ultra SCSI. The #5080 and #5082 are fast SCSI and support the #5052.
3. Slot 3 is occupied by the #6502, #6512, #6530, #6532, or #6533 disk unit controller that supports the disk slots in the #5080, #5082, or #5083.
4. Slot 4 is occupied by the #6502, #6512, #6530, #6532, or #6533 disk unit controller that supports the disk slots in the #5052 or #5058 if attached.

14.6 AS/400e Advanced System Models 500, 510, and 530 features

500 PROCESSORS	
#2140	**6.4 RSP RAMP-C, 18.7 RSP CPW (V3R6), 21.4 RSP CPW (V3R7, V4R1, V4R2, and V4R3) Processor.** **Base Memory 64 MB** Minimum OS/400 level: V3R6/V3R7
#2141	**9.3 RSP RAMP-C, 26.9 RSP CPW (V3R6), 30.7 RSP CPW (V3R7, V4R1, V4R2, and V4R3) Processor.** **Base Memory 6 MB** Minimum OS/400 level: V3R6/V3R7
#2142	**12.6 RSP RAMP-C, 38.3 RSP CPW (V3R6), 43.9 RSP CPW (V3R7, V4R1, V4R2, and V4R3) Processor.** **Base Memory 64 MB** Minimum OS/400 level: V3R6/V3R7
510 PROCESSORS	
#2143	**21.6 RSP RAMP-C, 66.7 RSP CPW (V3R6), 77.7 RSP CPW (V3R7), 81.6 RSP CPW (V4R1, V4R2, and V4R3) Processor.** **Base Memory 256 MB** Minimum OS/400 level: V3R6/V3R7
#2144	**28.5 RSP RAMP-C, 85.0 RSP CPW (V3R6), 104.2 RSP CPW (V3R7), 111.5 RSP CPW (V4R1, V4R2, and V4R3) Processor.** **Base Memory 256 MB** Minimum OS/400 level: V3R6/V3R7
530 PROCESSORS	
#2150	**37.4 RSP RAMP-C, 107.1 RSP CPW (V3R6), 131.1 RSP CPW (V3R7), 148.0 RSP CPW (V4R1, V4R2, and V4R3) Processor.** **Base Memory 512 MB** Minimum OS/400 level: V3R6/V3R7
#2151	**48.9 RSP RAMP-C, 132.5 RSP CPW (V3R6), 162.7 RSP CPW (V3R7), 188.2 RSP CPW (V4R1, V4R2, and V4R3) Processor.** **Base Memory 512 MB** Minimum OS/400 level: V3R6/V3R7
#2152	**74.0 RSP RAMP-C, 198.7 RSP CPW (V3R6), 278.8 RSP CPW (V3R7), 319.0 RSP CPW (V4R1, V4R2, and V4R3) 2-way Processor.** **Base Memory 512 MB** Minimum OS/400 level: V3R6/V3R7
#2153	**119.2 RSP RAMP-C, 299.0 RSP CPW (V3R6), 459.3 RSP CPW (V3R7), 598.0 RSP CPW (V4R1, V4R2, and V4R3) 4-way Processor.** **Base Memory 512 MB** Minimum OS/400 level: V3R6/V3R7
#2162	**349.8 RSP CPW (V3R6), 509.9 RSP CPW (V3R7), 650.0 RSP CPW (V4R1, V4R2, and V4R3) 4-way Processor. Base Memory 512 MB.** Minimum OS/400 level: V3R6 with #1988/V3R7

POWER AND PACKAGING	
#0090	**#5052 Storage Expansion Unit Located on System Unit** The #5052 indicates that a #5052 Storage Expansion Unit is located on the system unit for Model 500 or 510. It is not supported on the Model 530.
#2673 #9673	**#2673 Optical Bus Adapter (1063 Mbps)** The #2673 allows for the addition of up to six optical buses on the Model 530. The #2686 or #2688 are required to attach the buses. The #9673 is the base optical bus adapter on the Model 530. Maximum: Two Card slots used: one
#2674	**#2674 Optical Bus Adapter (266 Mbps)** The #2674 allows for the addition of up to six optical buses on Models 500 and 510. The #2686 is required to attach the buses. Maximum: One Card slots used: One
#2686	**#2686 Optical Link Processor (266 Mbps)** The #2686 is a daughter card that allows for the addition of up to two optical buses to an #2674, #9763/#2673 Optical Bus Adapter. It can attach up to two #5070 or #5080 or one #5044. A maximum of three #2686 are allowed per optical bus adapter. Both #2686 and #2688 may be installed on the same optical bus adapter as long as the total number does not exceed three. Card slots used: None
#2688	**#2688 Optical Link Processor(1063 Mbps)** The #2688 is a daughter card that allows for the addition of up to two optical buses to a #9673 or #2673 Optical Bus Adapter on the Model 530. It can attach up to two #5072s or #5082s. A maximum of three #2688s are allowed per optical bus adapter. Both #2686 and #2688 may be installed on the same optical bus adapter as long as the total number does not exceed three. Card slots used: None
#5043	**Primary to Secondary Rack** The #5043 provides for the conversion of a 9406 E or F Model system unit rack to a 9309 #9171 type rack. The new rack retains the #5043. Only available when upgrading from 9406 E or F models to 9406 Model 5x0.
#5044	**#5044 System Unit Expansion Rackk** The #5044 is a 12 I/O card slot cage in a rack enclosure. Each unit provides two buses with six I/O card slots per bus. The #5044 is not available as a new feature but is a conversion of the #5042 rack. Requires the #2686 and #2673/#9673/#2674 to attach.
#5051 #9051	**#5051 Storage Expansion Unit for System Unit** The #5051 provides space for up to eight disk units. It attaches to the top of Model 500 and 510 system units. Prerequisite: #5143 Power Supply. The #9051 is the base storage expansion unit for the Model 530.
#5052	**#5052 Storage Expansion Unit** The #5052 provides space for up to 16 disk units. It attaches to the top of Model 500 and 510 system units and #5070 and #5072 1063 Mbps System Unit Expansion Towers and #5080 and #5082 Storage Expansion Tower. Only one #5052 per tower is supported and #5143 Power Supply may be required.
#5058	**#5058 Storage Expansion Unit (Ultra SCSI)** The #5058 provides space for up to 16 disk units. It attaches to #5071 266 Mbps System Unit Expansion Tower or #5073 1063 Mbps System Unit Expansion Towers, and #5081 266 Mbps Storage Expansion Tower and #5083 Storage Expansion Towers. Only one #5058 per tower is supported.
#5070	**#5070 266 Mbps System Unit Expansion Tower** The #5070 provides an I/O Tower for creating additional buses on Models 500 and 510. It includes a 266 Mbps optical bus card, 13 I/O card slots, space for up to four internal tape units, one #9245 Base Battery Backup, and two #9240/#9243 power supplies. Prerequisites: #2686 Optical Link Processor and #2674 Optical Bus Adapter. The #5070 can support one #5052 Storage Expansion Unit with a #5143 Power Supply. Due to power restrictions there is a limitation on some high powered features based in a #5070. This may mean that an additional #5070 is required.

#5071	**#5071 266 Mbps System Unit Expansion Tower (Ultra SCSI)** The #5071 provides an I/O Tower for creating additional buses on Models 500 and 510. It includes a 266 Mbps optical bus card, 13 I/O card slots, space for up to four internal tape units, one battery backup, and two power supplies. Prerequisites: #2686 Optical Link Processor and #2674 Optical Bus Adapter. The #5071 can support one #5058 Storage Expansion Unit. Due to power restrictions, there is a limitation on some high powered features based in a #5071. This may mean that an additional #5071 is required. The #5071 supports Ultra SCSI disks in the #5058 and replaces the #5070 for new orders.
#5072	**#5072 1063 Mbps System Unit Expansion Tower** The #5072 provides an I/O tower for creating additional buses on Model 530. It includes a 1063 Mbps optical bus card, 13 I/O card slots, space for up to four internal tape units, one #9245 Base Battery Backup, and two #9240/#9243 power supplies. Prerequisite: #2688 Optical Link Processor and #2673 Optical Bus Adapter/#9673 The #5072 can support one #5052 Storage Expansion Unit with #5143 Power Supply. Due to power restrictions, there is a limitation on some high powered features based in a #5072. This may mean that an additional #5072 is required.
#5073	**#5073 1063 Mbps System Unit Expansion Tower (Ultra SCSI)** The #5073 provides an I/O tower for creating additional buses on Model 530. It includes a 1063 Mbps optical bus card, 13 I/O card slots, space for up to four internal tape units, one battery backup, and two power supplies. Prerequisites: #2688 Optical Link Processor and #2673 Optical Bus Adapter/#9673 The #5073 can support one #5058 Storage Expansion Unit. Due to power restrictions, there is a limitation on some high powered features based in a #5073. This may mean that an additional #5073 is required. The #5073 supports Ultra SCSI disks in the #5058 and replaces the #5072 for new orders.
#5080	**#5080 266 Mbps Storage Expansion Tower** The #5080 provides a DASD tower on Models 500 and 510 for adding up to 16 disk units (a total of 32 disk units are possible with the addition of #5052). It includes a 266 Mbps optical bus card, two I/O card slots for the #6052, #6512, #6530, #6532, or #6533 disk IOPs, one #9245 Base Battery Backup, and two #9240/#9243 power supplies. Prerequisites: #2686 Optical Link Processor and #2674 Optical Bus Adapter.
#5081	**#5081 266 Mbps Storage Expansion Tower (Ultra SCSI)** The #5081 provides a DASD tower on Models 500 and 510 for adding up to 16 disk units (a total of 32 disk units are possible with the addition of #5058). It includes a 266 Mbps optical bus card, two I/O card slots for the #6502, #6512, #6530 disk IOPs, one battery backup, and two power supplies. Prerequisites: #2686 Optical Link Processor and #2674 Optical Bus Adapter. The #5081 supports Ultra SCSI disk units and replaces the #5080 for new orders.
#5082	**#5082 Storage Expansion Tower** The #5082 provides a DASD tower on Model 530 for adding up to 16 disk units (a total of 32 disk units are possible with the addition of #5052). It includes a 1063 Mbps optical bus card, two I/O card slots for the #6502, #6512, #6530, #6532, or #6533 disk IOPs, one #9245 Base Battery Backup, and two #9240/#9243 power supplies. Prerequisites: #2688 Optical Link Processor and #2673 Optical Bus Adapter/#9673.
#5083	**#5083 Storage Expansion Towerr (Ultra SCSI)** The #5083 provides a DASD tower on Model 530 for adding up to 16 disk units (a total of 32 disk units are possible with the addition of #5058). It includes a 1063 Mbps optical bus card, two I/O card slots for the #6502, #6512, #6530 disk IOPs, one battery backup, and two power supplies. Prerequisites: #2688 Optical Link Processor and #2673 Optical Bus Adapter/#9673. The #5083 supports Ultra SCSI disk units and replaces the #5082 for new orders.
#5143	**#5143 Power Supplyy** The #5143 is a 400-watt power supply feature required when one of these conditions applies: Adding the second internal tape unit into the system unit of Model 500 Adding Storage Expansion Unit #5051 to Model 500 system unit Adding #5052 Storage Expansion Unit to a #5070 or #5072 1063 Mbps System Unit Expansion Tower or to a Model 500 system unit Adding a storage expansion unit to a #5080 or #5082 Storage Expansion Tower. Certain combinations of high powered features may also mean that #5143 Power Supply is required in a Model 500. Only one #5143 is allowed per tower. Card slots used: None
#5144	**Additional Battery Back-up (External)** The #5144 is required when the main storage capacity exceeds 384 MB on Models 310 and 320. It involves the removal of the #9245 Base Battery Backup. It is allowed on Models 500 and 510 when upgrading from a 310 or 320 that required it. The #5144 is not required on new Model 500 or 510. It is not supported at all on a Model 530. Card slots used: None

#5145	**Additional Battery Back-up (internal)** The #5145 is available for Models 500 and 510 where additional Continuously Powered Main Storage (CPM) time is desired, in the event of a system failure. Card slots used: None
#8052	**#8052 Optional Base 16 Disk Storage Expansion Unit** The #8052 provides space for up to 16 disk units and is available only on the system unit of the Model 530. Replaces the #9051. The #8052 is not allowed when the 3590 tape is the alternate IPL device. Maximum: one
#9240	**400 Watt Power Supply** The #9240 is required on all Model 500, 510, and 530 system units and on #5070, #5072, #5080, and #5082 Storage Expansion Towers. Card slots used: None
#9243	**Base Feature Power Supply** The #9243 provides a 400-watt power supply that is required on all Model 500, 510, and 530 system units, and on #5070, #5072, #5080, and #5082 Storage Expansion Towers. Model 510 and 530 system unit require two #9243s. Card slots used: None
#9245	**#9245 Base Battery Backup** The #9245 is the base battery backup used on all Model 500, 510, and 530 system units and on #5070, #5072, #5080, and #5082 Storage Expansion Towers. Models 530 system unit requires two #9245 Base Battery Backups. Card slots used: None
MAIN STORAGE	
#3152	**32 MB Main Storage** Supported on Model 510. Must be added in pairs. Requires one dedicated memory card slot. Maximum: One pair.
#3153	**64 MB Main Storage** Supported on Model 510. Must be added in pairs. Requires one dedicated memory card slot. Maximum: One pair.
#3154	**128 MB Main Storage** Supported on Model 510. Must be added in pairs. Requires one dedicated memory card slot. Maximum: One pair.
#3155	**256 MB Main Storage** Supported on Model 510. Must be added in pairs. Requires one dedicated memory card slot. Maximum: One pair.
#3162	**128 MB Main Storage** Supported on Model 530 on processors #2150, #2151, #2152, and #2153 only. Must be added in pairs. Requires one dedicated memory card slot. Maximum: One pair.
#3163	**256 MB Main Storage** Supported on Model 530 on processors #2150, #2151, #2152, and #2153 only. Must be added in pairs. Requires one dedicated memory card slot. Maximum: One pair.
#3164	**512 MB Main Storage** Supported on Model 530 on all processors. Must be added in pairs. Requires one dedicated memory card slot. Maximum: One pair.
#3165	**1024 MB Main Storage** Supported on Model 530 on all processors. Must be added in pairs. Requires one dedicated memory card slot. Maximum: One pair.
#3166	**256 MB Main Storage** Supported on Model 530 processor #2162 only. Must be added in pairs. Requires one dedicated memory card slot. Maximum: One pair.
#3184	**32 MB Main Storage** Supported by Model 500 processor. Must be added in pairs on processor #2142. Requires one dedicated memory card slot. Maximum: Two on processor #2140 and #2141; one pair on processor #2142.
#3185	**64 MB Main Storage** Supported by Model 500 processor. Must be added in pairs on processor #2142. Requires one dedicated memory card slot. Maximum: Two on processor #2140 and #2141; one pair on processor #2142.

#3186	**128 MB Main Storage** Supported by Model 500 processor. Must be added in pairs on processor #2142. Requires one dedicated memory card slot. Maximum: Two on processor #2140 and #2141; one pair on processor #2142.
#3187	**256 MB Main Storage** Supported by Model 500 processor. Must be added in pairs on processor #2142. Requires one dedicated memory card slot. Maximum: Two on processor #2140 and #2141; one pair on processor #2142.
#7186	**Optional Base 128 MB Main Storage** Supported on Model 500 processors #2140 and #2141. It provides an optional 128 MB main storage card in place of the base 64 MB card. Requires one dedicated memory card slot.
#7187	**Optional Base 256 MB Main Storage** Supported on Model 500 processors #2140 and #2141. It provides an optional 256 MB main storage card in place of the base 64 MB card. Requires one dedicated memory card slot.
#7255	**Optional Base 256 MB Main Storage** Supported on Model 510. It provides an optional 256 MB main storage card in place of the base 128 MB card. Must be added in pairs. Requires one dedicated memory card slot.
#8185	**Optional Base 64 MB Main Storage** Supported on Model 500 processor #2142. It provides an optional 64 MB main storage card in place of a base 32 MB card. Must be added in pairs. Requires one dedicated memory card slot.
#8186	**Optional Base 128 MB Main Storage** Supported on Model 500 processor #2142. It provides an optional 128 MB main storage card in place of a base 32 MB card. Must be added in pairs. Requires one dedicated memory card slot.
#8187	**Optional Base 256 MB Main Storage** Supported on Model 500 processor #2142. It provides an optional 256 MB main storage card in place of a base 32 MB card. Must be added in pairs. Requires one dedicated memory card slot.
#8264	**Optional Base 512 MB Main Storage** Supported on Model 530 on all processors. It provides an optional 512 MB main storage card in place of a base 256 MB card. Must be added in pairs. Required one dedicated memory card slot.
#8265	**Optional Base 1024 MB Main Storage** Supported on Model 530 on all processors. It provides an optional 1024 MB main storage card in place of a base 256 MB card. Must be added in pairs. Requires one dedicated memory card slot.
#9184	**Base 32 MB Main Storage** Supported on Model 500 processor #2142. Must be added in pairs. Requires one dedicated memory card slot.
#9185	**Base 64 MB Main Storage** Supported on Model 500 processors #2140 and #2141. Requires one dedicated memory card slot.
#9254	**Base 128 MB Main Storage** Supported on Model 510. Must be added in pairs. Requires one dedicated memory card slot.
#9263	**Base 256 MB Main Storage** Supported on Model 530 on processors #2150, #2151, #2152, and #2153 only. Must be added in pairs. Requires one dedicated memory card slot.
#9266	**Base 256 MB Main Storage** Supported on Model 530 on processor #2162 only. Must be added in pairs. Requires one dedicated memory card slot.

WORKSTATION CONTROLLERS	
#2629	**#2629 LAN/WAN/Workstation IOP** The #2629 supports up to three #2699, #6149, #6180, or #6181 LAN/WAN/ Workstation IOAs. The #6149 and #6181 cannot occupy all three positions of the #2629. No more than seven #2629s can be placed in one #5070 or #5072 1063 Mbps System Unit Expansion Tower. The #2629 cannot be placed in slot 14 of a #5070 or #5072. There is no restriction on placing the #2629 in #5071 or #5073 1063 Mbps System Unit Expansion Tower. Minimum OS/400 level: V4R1 Card slots required: One
#5540	**#5540 System Console on Twinaxial Workstation IOA Specify** Prerequisite: #9162 MFIOP.
#5541	**Console attached to ASCII Workstation Controller Specify** Prerequisite: #9163 MFIOP. An #9141/#6141 ASCII Workstation Controller is automatically included when the #5541 is specified to control the ASCII system console.
#5542	**Console attached to LocalTalk Workstation Adapter Specify**
#5543	**Client Access/400 Console Specify** The #5543 specifies a PC workstation to act as the system console. Prerequisite: A #9612/#2612 EIA 232/V.24 One-Line Adapter and a #9026 or #9027 console attachment cable. #9026 Console attachment cable (6m) #9027 Console attachment cable (2.5m)
#6050	**#6050 Enhanced Twinaxial Workstation Controller** The #6050 is an eight-port workstation attachment provided to support 40 5250-type displays or printers. Requires one I/O card slot.
#6054 #9054	**#6054 Workstation Adapter for Apple Macintosh (LocalTalk)** See the Communications section.
#6140	**#6140 Twinaxial Workstation Controller** The #6140 provides eight ports to support a maximum of 40 twinaxial devices. Requires one I/O card slot.
#6141 #9141	**#6141 ASCII Workstation Controller** The #6141 is a six-port workstation controller and workstation adapter supports up to six ASCII devices. Requires one I/O card slot.
#6142	**#6142 ASCII 12-Port Workstation Attachment** The #6142 plugs into the ASCII Workstation controller #6141/#9141 providing an additional 12 ports. One #6142 can be attached per #6141/#9141. Eighteen ASCII devices can now be support. Requires no I/O card slot.
#6180	**#6180 Twinaxial Workstation IOA** The #6180 is an eight-port attachment provided to support up to 40 twinaxial devices. Prerequisite: #2629 LAN/WAN/Workstation IOP IOA slots required for #6180: One #2629 slot Minimum OS/400 level: V4R1
#8162 #9162	**MFIOP with Twinaxial Support** Both the #9152 and #8162 allow the attachment of 40 5250-type devices and provide support for a twinaxial console. They also support one #9149 is a prerequisite. The #8162 is not available for new orders.
#9149	**Twinaxial Passthru Adapter** The #9149 adapts a twinaxial cable to the twinaxial function that resides inside the #9162/#8162. The #9149 is a prerequisite of #9162/#8162. When an external diskette drive is required on the system, the #9149 is replaced by a #6147 Diskette Adapter.
#9163	**MFIOP without Twinaxial Support** The #9163 does not support any 5250-type devices. When one #6054/#9054 is attached, the #9163 controls a LocalTalk system console. Without the #6054/#9054 attached, the system console is driven by the first workstation controller found when the system searches along the bus.

COMMUNICATIONS	
MFIOP	**Base Communications** The Multifunction I/O Processor comes as standard on the Model 500, 510, or 530. The MFIOP (#9162, #8162, or #9163) can support two communications lines. The first line (with an EIA 232/V.24 adapter) is supplied as standard (#9612) for use with IBM Electronic Customer Support. One cable must be specified: #9023 EIA 232/V.24 20-ft. (6m) enhanced cable #9835 EIA 232/V.24 50-ft. (15m) enhanced cable Maximum aggregate data rate: 83.2Kbps
#2605	**#2605 ISDN Basic Rate Interface Adapter** The #2605 connects to the #2623 to support one communications line to an ISDN network. Each adapter supports two 64 Kbps B channels and one 16 Kbps D channel. ISDN lines are full duplex. Requires no I/O card slots. Not supported in Canada. **Note:** This adapter cannot be attached to #2623 that also attaches V.24, X.21, or V.35 adapters.
#2609	**#2609 EIA 232/V.24 Two-Line Adapterr** The #2609 connects to the #2623 to support two communications lines using ASYNC, BSC, SDLC or X.25 protocol. Requires no I/O card slots. Two cables must be specified: #9023 EIA 232/V.24 20-ft. (6m) enhanced cable #9835 EIA 232/V.24 50-ft. (15m) enhanced cable #9022 EIA 232/V.24 20-ft. (6m) cable #9836 EIA 232/V.24 50-ft. (15m) cable
#2610	**#2610 EIA 232/V.24 Two-Line Adapter (SPD)** The #2610 connects to the #2623 to support two communications lines using X.21 or X.25 networks. Requires no I/O card slots. Two cables must be specified: #9021 X.21 20-ft. (6m) cable #9839 X.21 50-ft. (15m) cable
#2612	**#2612 EIA 232/V.24 One-Line Adapter** The #2612 connects to the MFIOP and #2623 Six-Line Communications Controller to support one communications line using ASYNC, BSC, SDLC or X.25 protocol. Requires no I/O card slots. One cable must be specified (see cable features for #2609)
#2613	**#2613 V.35 One-Line Adapter** The #2613 connects to MFIOP and #2623 supporting one V.35 line using either BSC, SDLC, or X.25 protocols. Requires no I/O card slots. One cable must be specified: #9020 V.35 20-ft. (6m) cable #9838 V.35 50-ft. (15m) cable
#2614	**#2614 X.21 One-Line Interface Adapter (SPD)** The #2614 connects to the MFIOP and #2623 to attach one communications line to an X.21 or X.25 network. Requires no I/O card slots. One cable must be specified (see cable features for #2610).
#2620	**#2620 Full Cryptographic Processor** The #2620 provides full cryptographic support for encrypting and decrypting data. The #2620 consists of an I/O processor card and cable to attach an optional 4754-001. Distribution of the #2620 is restricted by U.S. Government export regulations. In countries outside the U.S.A. and Canada, it may be marketed only to financial institutions and subsidiaries of U.S. companies. Requires one I/O card slot.
#2623	**#2623 Six-Line Communications Controller** The #2623 provides basic control and common circuits for up to six lines. Requires one I/O card slot.
#2628	**#2628 Limited Cryptographic Processoror** The #2628 provides the same functions as the #2620, except for Data Encryption Standard based data scrambling. Instead it uses Commercial Data Masking Facility for data scrambling. Supports attachment of optional 4754-L01. Does not require U.S. Customs clearance. Requires one I/O card slot.
#2629	**#2629 LAN/WAN/Workstation IOP** The #2629 supports up to three #2699, #6149, #6180, or #6181 LAN/WAN/ Workstation IOAs. The #6149 and #6181 cannot occupy all three positions of the #2629. No more than seven #2629s can be placed in one #5070 or #5072 1063 Mbps System Unit Expansion Tower. The #2629 cannot be placed in slot 14 of a #5070 or #5072. There is no restriction on placing the #2629 in the #5071 or #5073 1063 Mbps System Unit Expansion Tower. Card slots required: One Minimum OS/400 level: V4R1

#2664	**#2664 Integrated Fax Adapter** The #2664 provides the iSeries or AS/400e with two ports capable of transmission and receipt of facsimile data to or from a Group 3 capable Fax, another iSeries or AS/400e with an integrated Fax adapter, or PCs with appropriately programmed Fax adapters. Requires one I/O card slot. Not supported with V5R1 and later.
#2666	**#2666 High-Speed Communications Adapter (SPD)** The #2666 provides the iSeries or AS/400e with one communications port capable of high-speed communication over public or private Frame Relay networks or point-to-point non-switched SDLC lines. Speeds up to 2.048 Mbps are possible. Requires one I/O card slot. One of these cables must be specified: #9879 6m V.35 cable #9880 24m V.35 cable * #9882 6m V.36/EIA 449 cable #9883 24m V.36/EIA 449 cable ** #9884 45m V.36/EIA 449 cable ** #9885 6m X.21 cable * Line speeds up to 64Kbps only ** Use of these longer cables require that the attaching Data Communications Equipment (DCE) support the V.36 transmitter signal element timing Data Terminal Equipment (DTE) source signal. The #2666 is classified as a communications line for purpose of maximum communication lines per model.
#2699	**#2699 Two-Line WAN IOAA** The #2699 supports up to two multiple protocol communications ports when any one or two of these cables are attached: #0329 V.24/EIA 232 80-ft. (24m) cable #0330 V.24/EIA 232 20-ft. (6m) cable #0331 V.24/EIA 232 50-ft. (15m) cable #0332 V.24/EIA 232 20-ft. (6m) enhanced cable #0333 V.24/EIA 232 50-ft. (15m) enhanced cable #0334 V.24/EIA 232 80-ft. (24m) enhanced cable #0335 V.36/EIA 449 20-ft. (6m) cable #0336 V.36/EIA 449 50-ft. (15m) cable #0337 V.36/EIA 449 150-ft. (45m) cable #0338 V.35 20-ft. (6m) cable #0339 V.35 50-ft. (15m) cable #0340 V.35 80-ft. (24m) cable #0341 X.21 20-ft. (6m) cable #0342 X.21 50-ft. (15m) cable There are some restrictions on communications using the #2699. For full details, see the #2699 description in 10.13, “AS/400e Model 640 and 650 features” on page 317. Prerequisite for #2699: #2629 LAN/WAN/Workstation IOP IOA slots required for #2699: One on #2629 Minimum OS/400 level: V4R1
#6054 #9054	**#6054 Workstation Adapter for Apple Macintosh (LocalTalk)** The #6054 allows Apple Macintosh computer devices to attach directly to the iSeries or AS/400e. Also allows for connection to LocalTalk networks. Each adapter allows attachment of 31 Apple Macintosh devices with up to 56 sessions. The #6054 attaches to the #2623. The #9054 attaches to the MFIOP. A maximum of one #6054/#9054 can be attached per #2623/MFIOP. A second adapter on the #2623 may be X.21, V.24 or V.35. The third adapter position *must not* be used. A single-line EIA 232/V.24 adapter may co-reside with #9054 on MFIOP. The #9054 cannot be added to #9173 MFIOP.
#9612	**#9612 Standard EIA 232/V.24 One-Line Adapter** The #9612 provides support for one communications line using either ASYNC, BSC, SDLC or X.25 protocol. Specify one of these cables for ECS: #9023 EIA 232/V.24 enhanced cable (20-ft.) #9835 EIA 232/V.24 enhanced cable (50-ft.) #9612 may also be used in conjunction with #5543 Client Access/400 console and requires #9026/#9027 cables.
	LANS/ATM
#2617	**#2617 Ethernet/IEEE 802.3 Adapter/HP (SPD)** The #2617 provides a single attachment to one Carrier Sense Multiple Access/Collision Detect Local Area Network. The customer must procure the Attachment Unit Interface (AUI) cable, which connects between the adapter and the Ethernet/IEEE 802.3 transceiver. Supports 10 Mbps half duplex only. Requires one I/O card slot.

#2618	**#2618 Fiber Distributed Data Interface Adapter (SPD)** The #2618 provides one interface to connect an iSeries or AS/400e to an FDDI LAN that complies with ANSI X3T9.5 and ISO 9314 standards. Requires one I/O card slot. Cables: requires multi-node (62.5/125) micron FDDI optical fiber jumper cables to connect the FDDI adapter into the FDDI ring. These must be separately ordered.
#2619	**#2619 LAN/WAN/Workstation IOA** The #2619 provides a single attachment to a 16 Mbps or 4 Mbps IBM Token Ring Network. It consists of an adapter card, Internal Code, which supplies IEEE 802.5 Media Access Control and Logical Link Control functions, and an external 2.5m cable. Requires one I/O card slot.
#2629	**#2629 LAN/WAN/Workstation IOP** The #2629 supports up to three #2699, #6149, #6180, or #6181 LAN/WAN/ Workstation IOAs. The #6149 and #6181 cannot occupy all three positions of the #2629. No more than seven #2629s can be placed in one #5070 or #5072 1063 Mbps System Unit Expansion Tower. The #2629 cannot be placed in slot 14 of a #5070 or #5072. There is no restriction on placing a #2629 in the #5071 or #5073 1063 Mbps System Unit Expansion Tower. Card slots required: One
#2663	**#2663 I/O Attachment Processor (SPD)** The #2663 provides the communications hardware base for the #2668 Wireless LAN Adapter. The #2663 is required when attaching the #2668. The #2663 and #2668 are integrated in a single hardware package to operate as a unit. Shares one I/O card slot with #2668.
#2665	**Shielded Twisted-Pair Distributed Data Interface Adapter** The #2665 provides one interface to connect an iSeries or AS/400e to an FDDI LAN, which is constructed of IBM Cabling System Type 1, 2, 6, or 9 shielded twisted pair wiring. Requires one I/O card slot. Cables: The SDDI adapter requires IBM FDDI copper jumper cables to connect the adapter into the FDDI ring. These must be separately ordered.
#2668	**#2668 Wireless LAN Adapter (SPD)** The #2668 provides wireless connectivity from iSeries or AS/400e servers to workstations or other systems connected to a wireless LAN network. The #2668 comes with an antenna and a cable for connecting the antenna to the adapter. One of these antenna cables must be specified: #9814 20-ft. antenna cable #9815 50-ft. antenna cable One of these antenna must be specified: #9890 Omni-directional antenna #9891 Hemispherical antenna #9892 Directional antenna Prerequisite: #2663 I/O Attachment Processor
#2723	**#2723 PCI Ethernet IOA** The #2723 provides a single attachment to one Carrier Sense Multiple Access/Collision Detect Local Area Network. Consists of an adapter card and internal code, which supplies Ethernet Version 2 and IEEE 802.3 Media Access Control (MAC) plus IEEE 802.2 Logical Link Control (LLC) functions. Has an RJ45 connector and a 15 pin D-shell connector for attachment of customer-supplied cabling. AUI Ethernet or RJ45 twisted pair cable must be ordered separately. Minimum OS/400 level: V4R2 Prerequisites: #6617 Integrated PC Server or #6618 Integrated Netfinity Server.
#2724	**#2724 PCI 16/4 Mbps Token Ring IOA** The #2724 provides a single attachment to a 16 Mbps or a 4 Mbps Token Ring Network. It consists of an adapter card, internal code (supplies IEEE 802.5 Media Access Control (MAC) and IEEE 802.2 Logical Link Control (LLC) functions), and an external 8-f00t (2.4m) cable. Alternatively, a twisted pair cable for attachment to the RJ45 connector on the IOA can be ordered separately. Minimum OS/400 level: V4R2 Prerequisite: #6617 Integrated PC Server or #6618 Integrated Netfinity Server.
#2810	**#2810 LAN/WAN IOP** The #2810 is required to attach one #2838 PCI 100/10 Mbps Ethernet IOA or #2811/#2812/#2815/#2816/#2818/#2819 PCI ATM IOA. Minimum OS/400 level: V4R1 to support #2838 or V4R2 to support any ATM IOA. Card slots required: One with any of the preceding features.

#2811	**#2811 PCI 25 Mbps UTP ATM IOA** The #2811 provides attachment into an Asynchronous Transfer Mode (ATM) network using Unshielded Twisted Pair (UTP) cabling. The #2811 is typically used where 25 Mbps speed is required over distances of less than 100 meters. Technical specifications and industry standards supported are available at the ATM Forum Web site: http://www.atmforum.com Minimum OS/400 level: V4R2 Card slots required: One (with #2810) Prerequisite: #2810 LAN/WAN IOP
#2812	**#2812 PCI 45 Mbps Coax T3/DS3 ATM IOA** The #2812 provides attachment into an Asynchronous Transfer Mode (ATM) network using coax cabling and the T3/DS-3 interface. The #2812 is typically used where 45 Mbps speed is required over distances of less than 1000 meters. Technical specifications and industry standards supported are available at the ATM Forum Web site: http://www.atmforum.com Minimum OS/400 level: V4R2 Card slots required: One (with #2810) Prerequisite: #2810 LAN/WAN IOP
#2815	**#2815 PCI 155 Mbps UTP OC3 ATM IOA** The #2815 provides attachment into an Asynchronous Transfer Mode (ATM) network using the Unshielded Twisted Pair (UTP-5) interface. This interface is intended for connection to both local area switches and direct connection to service provider equipment. The #2815 is typically used where 155 Mbps speed is required over distances of less than 100 meters. Technical specifications and industry standards supported are available at the ATM Forum Web site: http://www.atmforum.com Minimum OS/400 level: V4R2 Card slots required: One Prerequisite: #2810 LAN/WAN IOP
#2816	**#2816 PCI 155 Mbps MMF ATM IOAA** The #2816 provides attachment into an Asynchronous Transfer Mode (ATM) network using the Multi-Mode Fibre (MMF) 62.5 micron interface. This interface is intended for connection to both local area switches and direct connection to service provider equipment. The #2816 is typically used where 155 Mbps speed is required over distances of less than 2 kilometers. Technical specifications and industry standards supported are available at the ATM Forum Web site: http://www.atmforum.com Minimum OS/400 level: V4R2 Card slots required: One (with #2810) Prerequisite: #2810 LAN/WAN IOP
#2818	**#2818 PCI 155 Mbps SMF OC3 ATM IOA** The #2818 provides attachment into an Asynchronous Transfer Mode (ATM) network using the Single Mode Fibre (SMF) 9 micron interface. This interface is intended primarily for direct connection to service provider equipment, but can be used for local area switches. The #2818 is typically used where 155 Mbps speed is required over distances of from 16 to 40 kilometers. Technical specifications and industry standards supported are available at the ATM Forum Web site: http://www.atmforum.com Minimum OS/400 level: V4R2 Card slots required: One (with #2810) Prerequisite: #2810 LAN/WAN IOP
#2819	**#2819 PCI 34 Mbps Coax E3 ATM IOA** The #2819 provides attachment into an Asynchronous Transfer Mode (ATM) network using coax cabling and the E3 interface. The #2819 is typically used where 34 Mbps speed is required over distances of less than 1000 meters. Technical specifications and industry standards supported are available at the ATM Forum Web site: http://www.atmforum.com Card slots required: One (with #2810) Prerequisite: #2810 LAN/WAN IOP Minimum OS/400 level: V4R2
#2838	**#2838 PCI 100/10 Mbps Ethernet IOA** The #2838 provides attachment to a standard 100 Mbps high-speed Ethernet LAN and allows attachment to existing 10 Mbps Ethernet LAN. The adapter comes with an RJ45 connector for attachment to UTP-5 media. Card slots required: One (with #2810) or three (with #6617 or #6618). Prerequisite: #2810 LAN/WAN IOP or #6617 Integrated PC Server or #6618 Integrated Netfinity Server Minimum OS/400 to support #2838 with #2810: V4R1 Minimum OS/400 to support #6617 with #2810: V4R2

#6149	**#6149 16/4 Mbps Token Ring IOA** The #6159 provides a single attachment to a 16 Mbps or a 4 Mbps Token Ring Network. It consists of an IOA card, internal code, which supplies IEEE 802.5 Media Access Control (MAC) and IEEE 802.2 Logical Link Control (LLC), and an external 8-ft. (2.4m) token ring cable. Alternatively a twisted pair cable for attachment to the RJ45 connector on the IOA can be ordered separately. The #6149 can operate in full or half-duplex mode. Card slots required: None Prerequisite: One #2629 LAN/WAN/Workstation IOP or #6616 Integrated PC Server Minimum OS/400 to support #6149 in #6616: V3R7 Minimum OS/400 to support #6149 in #2629: V4R1
#6181	**#6181 ASCII Workstation Controller** The #6181 provides a single attachment to one Carrier Sense Multiple Access/Collision Detect Local Area Network. Consists of an adapter card and internal code which supplies Ethernet Version 2 and IEEE 802.3 Media Access Control (MAC) plus 802.2 Logical Link Control (LLC) functions. Has an RJ45 connector and a 15 pin D-shell connector for attachment of customer supplies cabling. AUI Ethernet or RJ45 twisted pair cable must be ordered separately. Cabling must meet or exceed Industry Standard EIA/TIA T568B. The #6181 can operate in full or half-duplex mode. Card slots required: None Prerequisite: One #2629 LAN/WAN/Workstation IOP or #6616 Integrated PC Server Minimum OS/400 to support #6181 in #6616: V3R7 Minimum OS/400 to support #6181 in #2629: V4R1
IPCS #6516 #6517 #6518 #6519 #6526 #6527 #6528 #6529	**Integrated PC Server (formerly known as FSIOP)** The Integrated PC Server connects to the iSeries or AS/400e to provide high performance serving to PCs attached through token ring or Ethernet networks. The I/O processor consists of an Intel 80486 66 MHZ processor and on board main storage (16 to 64 MB). The initial order configurations can be field upgraded using #6509 and #6520: 16 MB One-Port Integrated PC Server 32 MB One-Port Integrated PC Server 48 MB One-Port Integrated PC Server 64 MB One-Port Integrated PC Server 16 MB Two-Port Integrated PC Server 32 MB Two-Port Integrated PC Server 48 MB Two-Port Integrated PC Server 64 MB Two-Port Integrated PC Server These cables need to be specified depending on the network attaching into a Integrated PC Server Port: #9024 Token ring cable (2.44m) #9025 Ethernet Cable (3m AUI) The Integrated PC Server requires two contiguous card slots
#6509	**Additional 16 MB for Integrated PC Server** The #6509 is used for expanding the memory of an installed Integrated PC Server. One to three #6509s may be installed per Integrated PC Server up to a maximum of 64 MB
#6520	**Upgrade One-Port Integrated PC Server to Two-Port Integrated PC Server** The #6250 cannot be used with a Two-Port Integrated PC Server.
#6616	**#6616 Integrated PC Server** The #6616 contains a 166 MHz Pentium Processor, two main storage slots, and two LAN IOA slots for higher performance serving to LAN attached PCs. The two main storage slots can each contain one of these features, giving a maximum of 256 MB. At least one main storage feature is required: #2861 32 MB Integrated PC Server Memory #2862 128 MB Integrated PC Server Memory Either one or two of these LAN IOAs are supported: #6149 16/4 Mbps Token Ring IOA #6181 ASCII Workstation Controller Card slots required: Two contiguous slots Minimum OS/400 level: V3R7 with cumulative PTF package C7029370 or later

#6617	**#6617 Integrated PC Server (SPD)** The #6617 contains a 200 MHz Pentium Processor, four main storage slots and three LAN IOA slots for high performance serving to LAN attached PCs. The four main storage slots can each contain one of these features, giving a maximum of 512 MB. At least one main storage feature is required: #2861 32 MB Integrated PC Server Memory #2862 128 MB Integrated PC Server Memory Up to three of these LAN IOAs are supported. At least one LAN IOA is required. A maximum of two of the LAN IOAs can be #2838: #2723 PCI Ethernet IOA #2724 PCI 16/4 Mbps Token Ring IOA #2838 PCI 100/10 Mbps Ethernet IOA The third LAN and the second #2838 can only be used if running Windows NT on the #6617. The #0222 100/10 Mbps Ethernet on IPCS is required for each #2838 attached to the #6617 Integrated PC Server. If running Windows NT on the #6617, then: The #0325 Integrated PC Server Extension Cable for Windows NT is required. The #1700 Integrated PC Server Keyboard or Mouse for Windows NT is the default in the U.S.A. A display is required to support Windows NT on IPCS. For country-specific keyboard or mouse and display support, refer to the Web site at: http://www.ibm.com/eserver/iseries/ Minimum OS/400 level: V4R2 Card slots required: Three contiguous slots. Cannot be placed in #5044 System Unit Expansion Rack.
#6618	**#6618 Integrated Netfinity Server (SPD)** The #6618 contains a 333 MHz Pentium Processor, four main storage slots, and three LAN IOA slots for high performance serving to LAN-attached PCs. The four main storage slots can each contain one of these features, giving a maximum of 1024 MB. At least one main storage feature is required: #2861 32 MB Integrated PC Server Memory Specify # is not required #2862 128 MB Integrated PC Server Memory Specify # is not required #2867 256 MB Integrated PC Server Memory Specify #0220 is required for each #2838 ordered Up to three of these LAN IOAs are supported. At least one LAN IOA is required. A maximum of two of the LAN IOAs can be #2838: #2723 PCI Ethernet IOA Specify # is not required #2724 PCI 16/4 Mbps Token Ring IOA Specify # is not required #2838 PCI 100/10 Mbps Ethernet IOA Specify #0222 is required The third LAN and the second #2838 can only be used if running Windows NT on the #6618. The #0222 100/10 Mbps Ethernet on IPCS is required for each #2838 attached to the #6618 Integrated Netfinity Server. If running Windows NT on the #6618, then: A minimum of 64 MB IOP memory is required. The #0325 Integrated PC Server Extension Cable for Windows NT is required. The #1700 Integrated PC Server Keyboard or Mouse for Windows NT is the default in the U.S.A. A display is required to support Windows NT on the IPCS. For country-specific keyboard or mouse and display support, refer to the Web site at: http://www.ibm.com/eserver/iseries/ When running OS/2 on the #6618, then: #0325 and #1700 are not allowed. Only two of the LAN IOA slots can be used and only one can contain a #2838. A maximum of 512 MB IOP memory is supported. When running Novel Netware on the #6618, then: #0325 and #1700 are not allowed. Only two of the LAN IOA slots can be used and only one can contain a #2838. A maximum of 256 MB IOP memory is supported. SPD slots required: Three contiguous slots. Cannot be placed in #5044 System Unit Expansion Rack. Minimum OS/400 level: V4R2 and CUM C8342420 or V4R3 and CUM C8349430.
DISK UNITS	
#1105	**320 MB Single Disk Unit Conversion Kit** The #1105 provides the conversion kit required to migrate 320 MB one-byte SCSI disk units to Models 500, 510, and 530. 640 MB dual-disk units require two of these kits. Each kit occupies one disk slot.

#1107	**400 MB Single Disk Unit Conversion Kit** The #1107 provides the conversion kit required to migrate 400 MB one-byte SCSI disk units to Models 500, 510, and 530. 800 MB dual-disk units require two of these kits. Each kit occupies one disk slot.
#1109	**98 8MB Single Disk Unit Conversion Kit** The #1109 provides the conversion kit required to migrate 988 MB one-byte SCSI disk units to Models 500, 510, and 530. 1976 MB dual-disk units require two of these kits. Each kit occupies one disk slot.
#1602	**1.03 GB Single Disk Unit Conversion Kit** The #1602 provides the conversion kit required to migrate 1.03 GB one-byte SCSI disk units to Models 500, 510, and 530. 2.06 GB dual-disk units require two of these kits. Each kit occupies one disk slot.
#1603	**#1603 1.96 GB Single Disk Unit Conversion Kit** The #1603 provides the conversion kit required to migrate 1.96 GB one-byte SCSI disk units to Models 500, 510, and 530. 3.93 GB dual-disk units require two of these kits. Each kit occupies one disk slot.
#6109	**988 MB Additional Disk Unit** The #6109 provides a 3 ½-inch single disk unit with 988 MB capacity for additional disk storage.
#6605	**1.03 GB Additional Two-Byte Disk Unit** The #6605 provides a 3 ½-inch single disk unit with 1.03 GB capacity for additional disk storage.
#6606	**1.96 GB Additional Two-Byte Disk Unit** The #6906 provides a 3 ½-inch single disk unit with 1.96 GB capacity for additional disk storage.
#6607 #7607	**#6607 4.19 GB Additional Two-byte Disk Unit** The #6607 provides a 3 ½-inch single disk unit with 4.19 GB capacity for additional disk storage. The #7607 is the base disk. It is the default base disk with V4R1.
#6650	**1.96 GB Additional Two-Byte Disk Unit** The #6650 provides a 3 ½-inch single disk unit with 1.96 GB capacity for additional disk storage.
#6652	**1.03 GB Additional Two-Byte Disk Unit** The #6652 provides a 3 ½-inch single disk unit with 1.03 GB capacity for additional disk storage.
#6713 #7713	**#6713 8.58 GB Disk Unit (Ultra SCSI)** The #6713 provides a 3 ½-inch single disk unit with 8.58 GB capacity for additional disk storage. For best performance, use attached to the #6532 or #6533 RAID Disk Unit Controller (Ultra SCSI) in the #5058 Storage Expansion Unit or #5083 Storage Expansion Tower. The #7713 is an optional 8.58 GB base disk. Minimum OS/400 level: V3R7.
#6714	**#6714 17.54 GB Disk Unit (Two-byte) (Ultra SCSI)** The #6714 provides a 3 ½-inch single disk unit with 17.54 GB capacity for additional disk storage. For best performance, use attached to the #6532 or #6533 RAID Disk Unit Controller (Ultra SCSI) in the #5058 Storage Expansion Unit or #5083 Storage Expansion Tower. This disk is not supported for attachment to the MFIOP. Minimum OS/400 level: V4R2 Minimum OS/400 to support the #6715 with integrated hardware disk compression: V4R4
#6906	**1.96 GB Additional Two-Byte Disk Unit (Ultra SCSI)** The #6906 provides a 3 ½-inch single disk unit with 1.96 GB capacity for additional disk storage. For best performance, use attached to the #6532 or #6533 RAID Disk Unit Controller (Ultra SCSI) in #5058 Storage Expansion Unit or #5081 or #5083 Storage Expansion Tower.
#6907	**4.19 GB Additional Two-Byte Disk Unit (Ultra SCSI)** The #6907 provides a 3 ½-inch single disk unit with 4.19 GB capacity for additional disk storage. For best performance, use attached to the #6532 or #6533 RAID Disk Unit Controller (Ultra SCSI) in the #5058 Storage Expansion Unit or the #5081 or #5083 Storage Expansion Tower.
#9606	**1.96 GB Base Two-Byte Disk Unit** The #9606 provides a 3 ½-inch single disk unit with 1.96 GB capacity as the base disk unit on new Models 500, 510, and 530 or on upgrades to Models 500, 510, and 530.
INTERNAL TAPE UNITS AND CD-ROM	
#1378	**525 MB ¼-inch Cartridge Tape Unit Conversion Kit** The #1378 provides the conversion kit required to migrate 525 MB ¼-inch cartridge tape units.
#1379	**1.2 GB ¼-inch Cartridge Tape Unit Conversion Kit** The #1379 provides the conversion kit required to migrate 1.2 GB ¼-inch cartridge tape units.
#1380	**2.5 GB ¼-inch Cartridge Tape Unit Conversion Kit** The #1380 provides the conversion kit required to migrate 2.5 GB ¼-inch cartridge tape unit.

#5032	**Removable Media Cluster Box** The #5032 is a rack-mounted box that allows the attachment of one to four 1.2 GB or 2.5 GB ¼-inch cartridge tape units (#6368 or #6369). It attaches to a #2621. This is supported for upgrades only, it is not orderable on a new iSeries or AS/400e.
#6335	**#6335 840 MB ¼-inch Cartridge Mini Tape Unit** Using the QIC-3040-MC recording format, tape cartridge capacity is 840 MB. With hardware, data compression maximum capacity is up to 1.6 GB. Sustained data transfer rate is 300 KB per second.
#6368	**1.2 GB ¼-inch Cartridge Tape** The #6368 provides full interchange of data with appropriate ¼-inch cartridge tape units provided with the iSeries or AS/400e server using the proper media and density. This tape is installed in the #5032. The #6368 is supported for upgrades only.
#6369	**#6369 2.5 GB ¼-inch Cartridge Tape Unit** The #6369 provides full interchange of data with appropriate ¼-inch cartridge tape units provided with the iSeries or AS/400e server using the proper media and density. This tape is installed in the #5032. The #6369 is supported for upgrades only.
#6380	**#6380 2.5 GB ¼-inch Cartridge Tape Unit** The #6380 provides full interchange of data with all standard and optional ¼-inch cartridge tape units provided on the iSeries or AS/400e server, using the proper media and devices. Sustained data transfer rate is 300 KB per second. With hardware, data compression maximum capacity is up to 5 GB. Supported as an alternate IPL device.
#6385	**#6385 13 GB ¼-Inch Cartridge Tape Unit** The #6385 provides full interchange of data with all standard and optional ¼-inch cartridge tape units provided on the iSeries or AS/400e server, using the proper media and devices. Sustained data transfer rate is 1.5 MB per second. With hardware, data compression maximum capacity is up to 26 GB. Supported as an alternate IPL device. Prerequisite: #6513 Internal Tape Device Controller.
#6390	**#6390 7 GB 8 mm Cartridge Tape Unit** 8mm Helical Scan tape drive that can be used for save and restore, program distribution and alternate IPL. Has sustained data rate of 500KB per second. With hardware, data compression maximum capacity is up to 14 GB.
#9520	**Base CD-ROM Drive** Used for code distribution.
	MAGNETIC MEDIA CONTROLLERS
#2621	**#2621 Storage Device Controller (SPD)** The #2621 provides attachment capability for up to two of these devices with hardware data compression: 2440, 9348, 7208, 3995, 9427, and #5032. If the #2621 is to support dual drive 7208, 3995, or 9427, it must be dedicated to it. Card slots used: One
#2624	**#2624 Storage Device Controller** The #2624 can support up to two internal tape units in the system unit. As a feature on #507x it can support up to three internal tape units. The #2624 can concurrently support a #6146 Diskette Adapter to attach an external diskette unit. Under V3R7, the hardware configurators defaults to the #6513 Internal Tape Device Controller, unless the tape is a #1378 (525MB QIC) or if a #2624 is available to attach to the tape. Card slots used: One. Maximum: One per tower
#2644	**#2644 Magnetic Tape Attachment Card/HP** The #2644 provides attachment for all 34xx Tape subsystem models (except for SCSI attach 3490 models). May also require #9980 Serpentine cable. Card slots used: One
#6112	**Magnetic Storage Device Controller** The #6112 provides attachment of up to two 9336 disk units, up to two 9331-00x diskettes or up to two 9347 tape units. If a #6112 has a 9336 disk unit attached to it, it cannot simultaneously attach a 9331 or a 9427 on 5x0 models. It must be dedicated to 9336. A maximum number of #6112s supported is two for 9331 on 5x0 models; two for 9427 on 5x0 models and 16, 28, and 35 for 9336 on 500, 510, and 530 models respectively. The maximum combined number of the #6112 is 20, 32, and 35 respectively. Card slots used: One.
#6146	**#6146 Diskette Adapter** The #6146 provides support for one of these external diskette types: 9331-011 8-inch Diskette Unit 9331-012 5 ¼-inch Diskette Unit It requires #2624 to attach. Card slots used: None. Maximum: One

#6147	**#6147 Diskette Adapter.** The #6147 provides support for one of these external diskette types: 9331-011 8-inch Diskette Unit 9331-012 5 ¼-inch Diskette Unit It attaches to MFIOP #9162 or #9163. Card slots used: None. Maximum: One It also supports Twinaxial Passthru (see #9149).
#6500	**Direct Access Storage Device Controller** The #6500 provides for the attachment of one 9337-0xx or 9337-1xx models. Card slots used: One.
#6501	**#6501 Tape/Disk Device Controller** The #6501 allows attachment of up to two 9337-2xx/4xx/5xx DASD units. Provides attachment for the 2105 Versatile Storage Server. The #6501 provides improved performance through its unique two-byte wide data path and increased transfer rate over the #6500. The #6501 also allows attachment of up to two SCSI attach 3490 or 35xx tape units. DASD and tape units cannot be mixed on the same #6501. Card slots used: One.
#6502	**#6502 High Performance Controller–2 MB Cache (RAID/Mirrored/Unprotected)** Card slots used: One.
#6512	**#6512 High Performance Controller–4 MB Cache (RAID/Mirrored/Unprotected)** Card slots used: One.
#6513	**#6513 Internal Tape Device Controller** The #6513 provides support for up to two internal tape devices when installed in the system unit or up to four internal tape devices when installed in a #507x System Unit Expansion Tower. This is the default on the hardware configurators except for #1378, (525MB QIC) or if a #2624 Storage Device Controller is available for attaching a required tape. #1379, #1380, #6335, #6380, #6385, and #6390 internal tape feature are supported. Minimum OS/400 level: V3R7. Card slots used: One.
#6530	**#6530 Disk Unit Controller No Cache No Cache (Mirrored/Unprotected)** The #6530 provides attachment for up to 16 internal disk units installed in a #505x, #8052 or #9051 Storage Expansion Unit (or installed in a #508x Storage Expansion Tower). Mutually exclusive with the #6502, #6512, #6532, and #6533. Card slots used: One.
#6532	**#6532 RAID Disk Unit Controller—4 MB Cache (RAID/Mirrored/Unprotected) (Ultra SCSI)** The #6532 is an Ultra SCSI Controller for up to 16 disks installed in #5058 Storage Expansion Unit or #5081 or #5083 Storage Expansion Tower. Also supports disks located in #5051, #5052, #8052 or #9051 Storage Expansion Unit, or #5080 or #5082 Storage Expansion Tower, but not at Ultra SCSI speeds. Offers performance improvements over the #6502, #6512, and #6530. A minimum of four drives and a maximum of ten drives are supported in each array. A maximum of four arrays are allowed for each #6532. The #6532 is not capable of compression. Card slots required: One
#6533	**#6533 RAID Disk Unit Controller—4 MB Cache (RAID/Mirrored/Unprotected) (Ultra SCSI)** The #6533 is an Ultra SCSI Controller for up to 16 disks installed in #5058 Storage Expansion Unit or #5081 or #5083 Storage Expansion Tower. Also supports disks located in the #5051, #5052, #8052 or #9051 Storage Expansion Unit, or #5080 or #5082 Storage Expansion Tower, but not at Ultra SCSI speeds. Offers performance improvements over the #6502, #6512 and #6530. A minimum of four drives and a maximum of ten drives are supported in each array. A maximum of four arrays are allowed for each #6533. Minimum OS/400 level: V4R2 Minimum OS/400 to support integrated hardware disk compression: V4R3 Minimum OS/400 to support integrated hardware disk compression on the #6714 17.54 GB Disk Unit: V4R4 Card slots required: One
#6534	**#6534 Magnetic Media Controller (SPD) (Ultra SCSI)** The #6534 provides attachment for one 3490E Cxx with #5040, 3490E Exx, 3490E Fxx, 3494 L1x or D1x, 3570, 3575, 3590, 7208, 9348 or 9427 Tape Drive or 3995 Optical Library Dataserver - Model C4x. Minimum OS/400 level: V4R1. V4R2 is required to support the 3995. Card slots required: One Maximum: Four
#9980	**Serpentine Cable** Required for attaching all #2644 supported devices (except 3490-Cxx when attached using “internal cables”).