8

AS/400e 170 models

Model and processor	Announce date	General availability date	Withdrawn from marketing
170 2159	10 February 1998	27 February 1998	31 May 1999
170 2160	10 February 1998	27 February 1998	28 December 2001
170 2164	10 February 1998	27 February 1998	28 December 2001
170 2176	10 February 1998	27 February 1998	28 December 2001
170 2183	10 February 1998	27 February 1998	28 December 2001
170 2289	09 February 1999	27 February 1998	31 May 2001
170 2290	01 September 1998	27 February 1998	28 December 2001
170 2291	01 September 1998	27 February 1998	28 December 2001
170 2292	01 September 1998	27 February 1998	28 December 2001
170 2385	01 September 1998	27 February 1998	28 December 2001
170 2386	01 September 1998	27 February 1998	28 December 2001
170 2388	09 February 1999	27 February 1998	28 December 2001
Dedicated Server for Domino			
2407	03 August 1999	27 February 1998	31 May 2001
2408	03 August 1999	27 February 1998	28 December 2001
2409	03 August 1999	27 February 1998	28 December 2001

8.1 AS/400e 170 model overview

Model	170 (February 1998)				
Processor feature	**#2159**	**#2160**	**#2164**	**#2176**	**#2183**
Relative system performance (CPW - see note 1)					
Client/server environment	75.0	114.0	210.0	319.0	319.0
Interactive environment	16.0	23.0	29.0	39.0	65.0
Number of n-way multiprocessors	1	1	1	1	1
Main storage (MB)	64-832	64-832	256-1024	256-1024	256-1024

Model	170 (September 1998/February 1999)						
Processor feature	**#2289**	**#2290**	**#2291**	**#2292**	**#2385**	**#2386**	**#2388**
Relative system performance[2] (CPW)							
Processor performance	50	73	115	220	460	460	1090
Interactive performance	15	20	25	30	50	70	70
Number of n-way multiprocessors	1	1	1	1	1	1	2
Main storage (MB)	64-832	64-832	64-832	256-1024	256-3584	256-3584	256-3584

	Base system for all processors[5]	**#7102 System Expansion Unit[5]**	**Total maximum[5]**
Disk storage (GB)			
Minimum internal	4.19	0	4.19
Maximum internal (V4R2)	34.32	51.48	85.80
Maximum internal (V4R3 and later)	70.16	105.24	175.40
System I/O card slots			
Low-speed PCI	2	4	6
Low-speed IPCS PCI	2	2	4
High-speed DASD IOA PCI	1	0	1
High-speed tape IOA PCI	0	1	1
High-speed Ethernet or ATM[3]	1	2	3
Maximum communication lines[4]	1-12	0-18	30
ATM adapters[6]	0-1	0-2	3
Maximum LAN/ATM adapters[6]	3	4	7
Non-Integrated Server LAN Low-Speed TR/Ethernet	1	4	5
Non-Integrated Server LAN 100/10 Ethernet	1	2	3
Integrated Server LAN Low-Speed TR/Ethernet	2	2	4
Integrated Server LAN 100/10 Ethernet	1	1	2
Maximum workstation controllers			
Twinaxial (only)	3	5	6
Maximum workstations			
Twinaxial (only)	28/108	200	228
Cryptographic processors	0	2	2
¼-inch cartridge tape (internal)	0-1	0	1
½-inch tape (external)			
Reel 9348	0	0-2	2
Reel 2440, 9347	0	0	0
Cartridge 34xx, 35xx	0	0-2	2
8mm ½-inch cartridge (external)	0	0-2	2
CD-ROM	1	0	1
Optical libraries	0	0-2	2

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. With the introduction of the Dedicated Servers for Domino, Simple Mail Users has been added as a performance measurement. The constrained figures are for the 9406 Model 170 with its maximum configuration. The unconstrained figures show what the performance would be if the processor was not limited by the maximum main storage and DASD of the Model 170.
Note 2	Processor performance represents the relative performance (maximum capacity) of a processor feature running CPW in a client/server environment. Processor capacity is achievable when the commercial workload is not constrained by main storage and DASD. Interactive performance represents the relative performance available to perform host-centric workloads. The amount of interactive capacity consumed reduces the available processor capacity by the same amount.
Note 3	The Integrated Server is mutually exclusive with the high-speed slot C03 for LAN/ATM/communications in the base system unit.
Note 4	One line is used by the Operations Console or Client Access Console if selected. The total is reduced by one if a Twinaxial Console is selected. To reach the maximum of 18 communication lines using the #2745/#9745 in slot C03, remove the base LAN adapter.
Note 5	Base system totals are the maximum for the #2289 processor. The #2289 processor does not support attachment of the #7101 or #7102 System Expansion Unit.
Note 6	Integrated Server can refer to either Integrated PC Server (IPCS) or #2790 PCI Integrated Netfinity Server.

8.2 AS/400e Dedicated Server for Domino

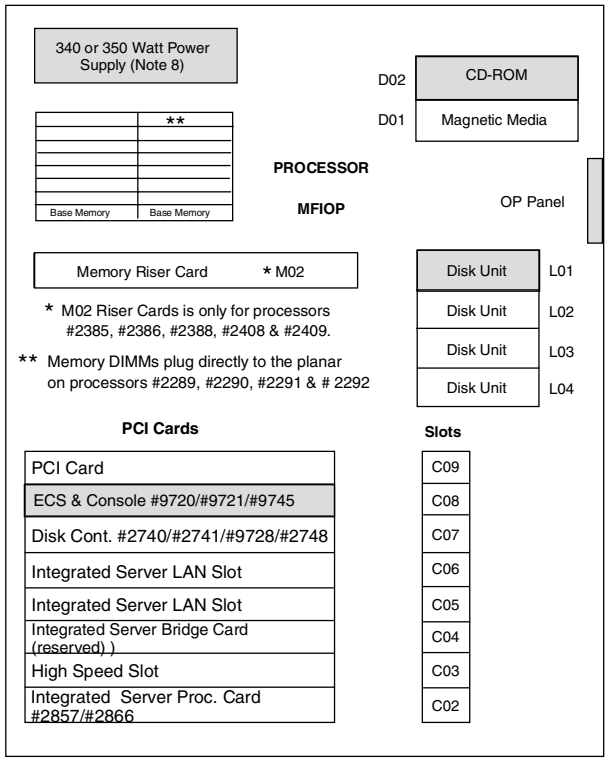
Model	**Dedicated Server for Domino (August 1999)**		
Processor feature	**#2407**	**#2408**	**#2409**
Relative system performance (CPW - see note 1)			
Client/server environment	30	60	120
Interactive environment	10	15	20
Simple Mail Users	1300	2300	4300
Number of n-way multiprocessors	1	1	2
Main storage (MB)	256-1024	512-4096	512-4096

	Base system for all processors[5]	**#7102 System Expansion Unit[5]**	**Total maximum[5]**
Disk storage (GB)			
Minimum internal	4.19	0	4.19
Maximum internal (V4R2)	34.32	51.48	85.80
Maximum internal (V4R3 and later)	70.16	105.24	175.40
System I/O card slots			
Low-speed PCI	2	4	6
Low-speed IPCS PCI	2	2	4
High-speed DASD IOA PCI	1	0	1
High-speed tape IOA PCI	0	1	1
High-speed Ethernet or ATM[3]	1	2	3
Maximum communication lines[4]	1-12	0-18	30
ATM adapters[6]	0-1	0-2	3
Maximum LAN/ATM adapters[6]	3	4	7
Non-Integrated Server LAN Low-Speed	1	5	5
Non-Integrated Server LAN 100/10 Ethernet	1	2	3
Integrated Server LAN Low-Speed TR/Ethernet	2	2	4
Integrated Server LAN 100/10 Ethernet	1	1	2

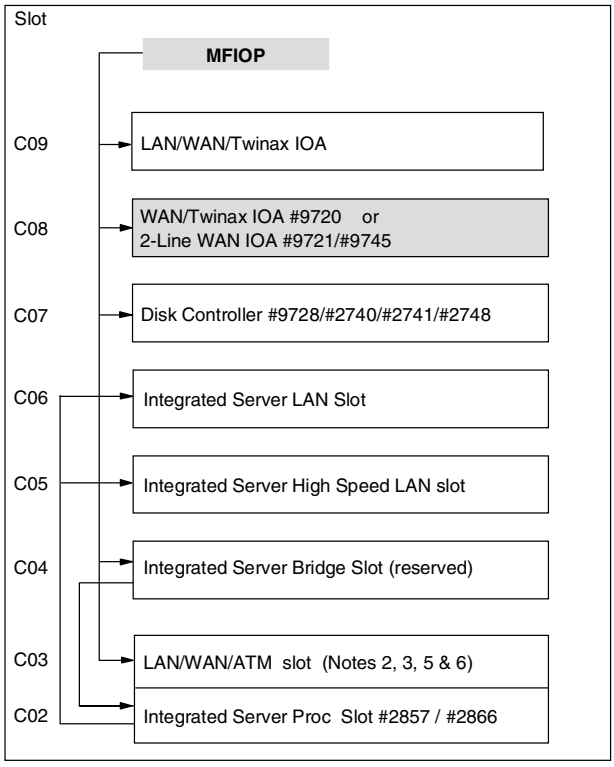
Maximum workstation controllers			
Twinaxial (only)	3	5	6
Maximum workstations			
Twinaxial (only)	28/108	200	228
Cryptographic processors	0	2	2
¼-inch cartridge tape (internal)	0-1	0	1
½-inch tape (external)			
Reel 9348	0	0-2	2
Reel 2440, 9347	0	0	0
Cartridge 34xx, 35xx	0	0-2	2
8mm ½-inch cartridge (external)	0	0-2	2
CD-ROM	1	0	1
Optical libraries	0	0-2	2

8.3 9406 Model 170 system unit and system expansion unit

9406 Model 170 System Unit



9406 Model 170 System Unit PCI Card Placement

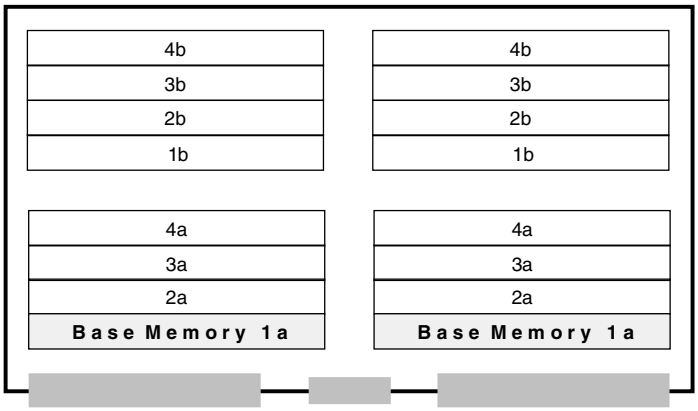


Notes:

1. No high-speed LAN is allowed in slot C09.
2. If any card is in slot C03, then no LAN card is allowed in slot C09.
3. Communications cards #2750, #2751, and #2761 are *only* allowed in high-speed slot C03.
4. #2289, #2290, #2291, and #2292 processors include embedded #9728 Base Disk Unit Controller. A separate #9728 is not needed.
5. If any IPCS is in slots C02/C04, C03 must remain empty.
6. In C03, the #2811, #2812, #2819, #2745, #2750, #2751, #2761, #2746, #2723, #2724, and #2838 are supported.

7. Integrated Server can refer to either Integrated PC Server (IPCS) or Integrated Netfinity Server.
8. 340W in #2289/#2290/#2291/#2292, 350W in #2385/#2386.

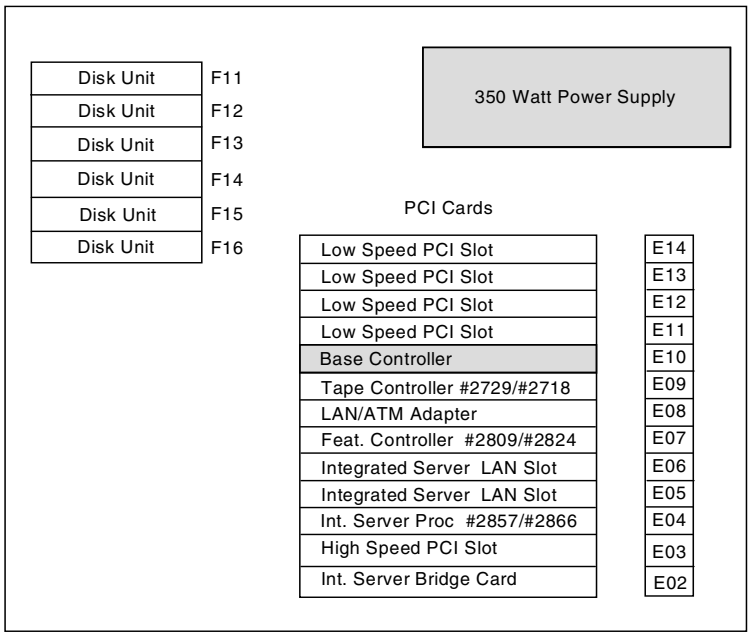
Model 170 Main Storage Riser Card (M02)
for Processors #2385, #2386, #2388, #2408, #2409



Notes:

1. DIMMS should be plugged in pairs in a sequential order, without leaving a gap.
2. Base memory cannot be upgraded.
3. When the upper half of the riser card is used (slot b), all DIMMS in those slots must match the corresponding bottom (a) slots (that is, quad).

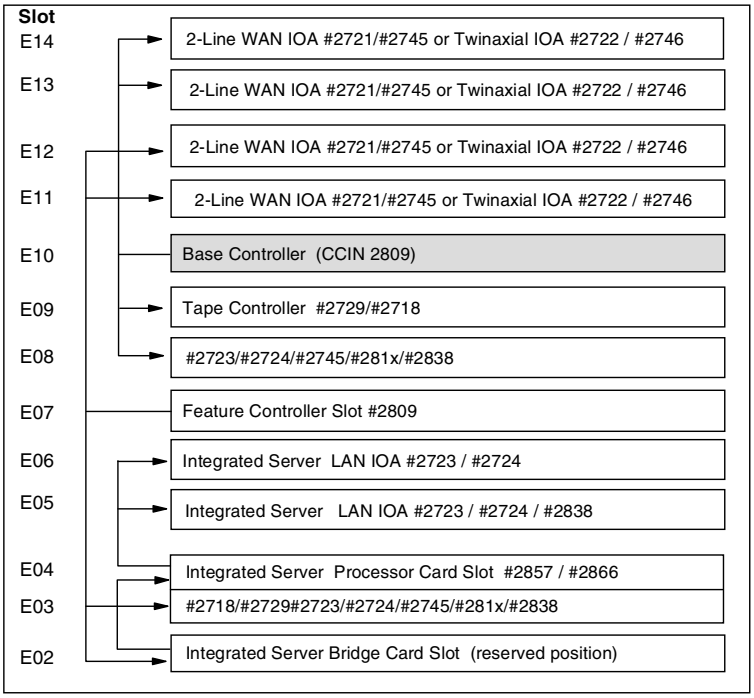
9406 Model 170 #7101/#7102 System Expansion Unit



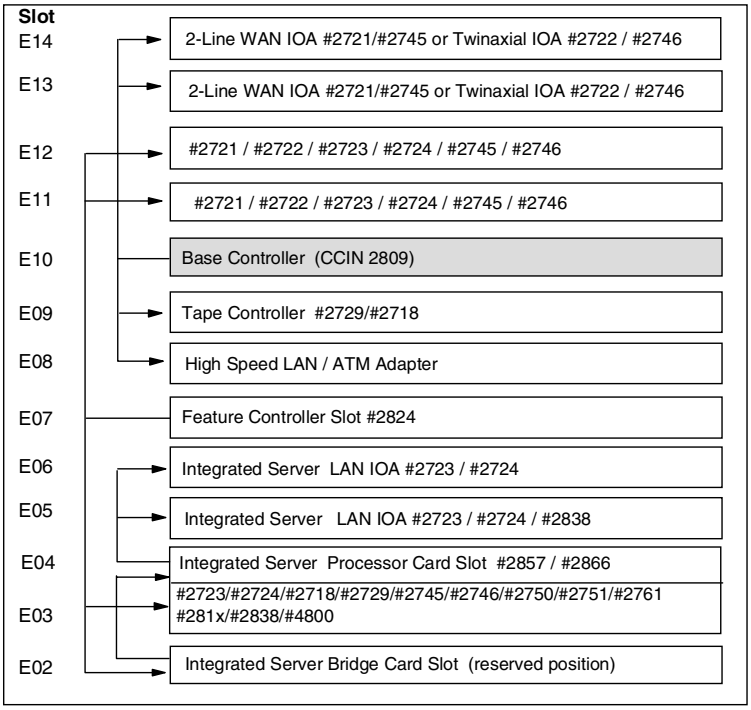
Notes:

1. If any ATM is in slot E08, slot E13 must remain empty. Base memory cannot be upgraded.
2. If an Integrated Server is in slots E02/E04, E03 must remain empty.
3. Both high-speed and low-speed ATMs are supported in the system expansion unit.
4. The disk units in the expansion unit are covered by the #2740, #9740, #2741, or #2748 PCI RAID Disk Unit Controller in the system unit.
5. Integrated Server can refer to Integrated PC Server (IPCS) or Integrated Netfinity Server.

PCI Card Cage for #7101 System Expansion Unit
Base #2809/CCIN 2809



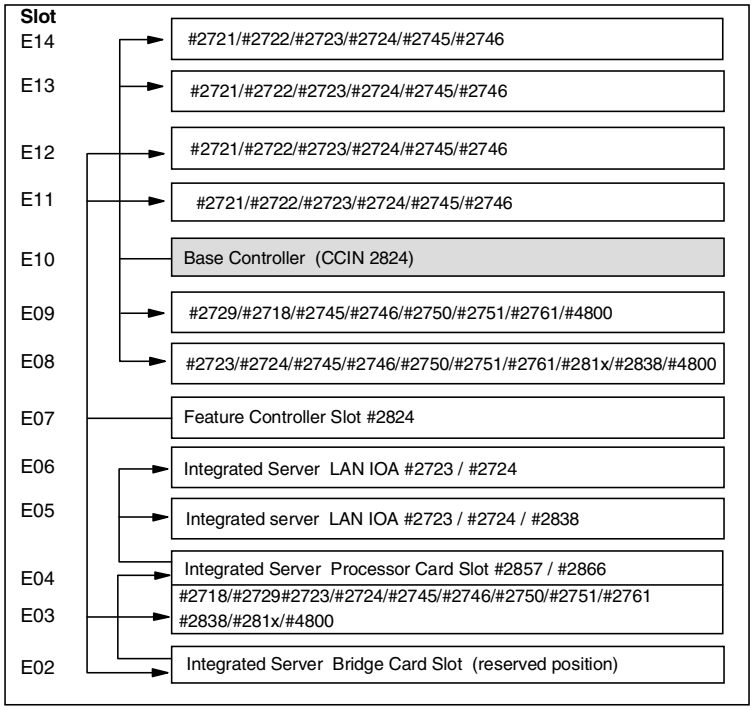
PCI Card Cage For #7101 System Expansion Unit #2824/Base CCIN 2824



Notes:

1. If any ATM is in slot E08, slot E13 must remain empty. Base memory cannot be upgraded.
2. If an Integrated Server is in slot E02/E04, E03 must remain empty.
3. Both high-speed and low-speed ATMs are supported in the system expansion unit.
4. The disk units in the expansion unit are covered by the #2740, #9740, #2741, or #2748 PCI RAID Disk Unit Controller in the system unit.
5. Communications cards #2750, #2751, and #2761 are allowed in slot E03.
6. The #4800 PCI Cryptographic Processor is only allowed in high-speed slot E03.
7. Integrated Server can refer to Integrated PC Server (IPCS) or Integrated Netfinity Server.

PCI Card Cage for #7102 System Expansion Unit #2824/Base CCIN 2824



Notes:

1. If any ATM is in slot E08, slot E13 must remain empty. Base memory cannot be upgraded.
2. If either 100/10 Ethernet or any ATM card is in slot E03 or E08, no other LAN is allowed in slots E11/E12 or E13/E14.
3. If an Integrated Server is in slots E02/E04, E03 must remain empty.
4. Both high-speed and low-speed ATMs are supported in the system expansion unit.
5. The disk units in the expansion unit are covered by the #2740, #9740, #2741, or #2748 PCI RAID Disk Unit Controller in the system unit.
6. Communications cards #2750, #2751, and #2761 are allowed in slots E03, E08, and E09 (maximum one per IOP).
7. The #4800 PCI Cryptographic Processor is allowed in high-speed slots E03, E08, or E09 (maximum one per IOP).
8. Integrated Server can refer to Integrated PC Server (IPCS) or Integrated Netfinity Server.

8.4 AS/400e Model 170 features

Note: The darker shaded cells in the tables indicate the base features.

PROCESSORS	
#2159	**75.0 RSP CPW Processor in Client/Server Environment (Unconstrained), 16.0 RSP CPW Processor in Interactive Environment (Constrained and Unconstrained). Base Memory 64 MB.**
#2160	**114.0 RSP CPW Processor in Client/Server Environment (Unconstrained), 23.0 RSP CPW Processor in Interactive Environment (Constrained and Unconstrained). Base Memory 64 MB.**
#2164	**210.0 RSP CPW Processor in Client/Server Environment (Unconstrained), 29.0 RSP CPW Processor in Interactive Environment (Constrained and Unconstrained). Base Memory 256 MB.**
#2176	**319.0 RSP CPW Processor in Client/Server Environment (Unconstrained), 39.0 RSP CPW Processor in Interactive Environment (Unconstrained). Base Memory 256 MB.**
#2183	**319.0 RSP CPW Processor in Client/Server Environment (Unconstrained),65.0 RSP CPW Processor in Interactive Environment (Unconstrained). Base Memory 256 MB.**
#2289	**50 RSP CPW Processor in Client/Server Environment (Unconstrained), 15 RSP CPW Processor in Interactive Environment (Unconstrained). Base Memory 64 MB.** Minimum OS/400 level: V4R3
#2290	**73 RSP CPW Processor in Client/Server Environment (Unconstrained), 20 RSP CPW Processor in Interactive Environment (Unconstrained). Base Memory 64 MB.** Minimum OS/400 level: V4R3
#2291	**115 RSP CPW Processor in Client/Server Environment (Unconstrained), 25 RSP CPW Processor in Interactive Environment (Unconstrained). Base Memory 64 MB.** Minimum OS/400 level: V4R3
#2292	**220 RSP CPW Processor in Client/Server Environment (Unconstrained), 30 RSP CPW Processor in Interactive Environment (Unconstrained). Base Memory 256 MB.** Minimum OS/400 level: V4R3
#2385	**460 RSP CPW Processor in Client/Server Environment (Unconstrained), 50 RSP CPW Processor in Interactive Environment (Unconstrained). Base Memory 256 MB.** Minimum OS/400 level: V4R3
#2386	**460 RSP CPW Processor in Client/Server Environment (Unconstrained), 70 RSP CPW Processor in Interactive Environment (Unconstrained). Base Memory 256 MB.** Minimum OS/400 level: V4R3
#2388	**1090 RSP CPW 2-way Processor in Client/Server Environment (Unconstrained), 70 RSP CPW Processor in Interactive Environment (Unconstrained). Base Memory 256 MB.** Minimum OS/400 level: V4R3
#2407	**Dedicated Domino Processor, 1300 Simple Mail Users, 30 RSP CPW Processor in Client/Server Environment, 10 RSP CPW in Interactive Environment. Base Memory 256 MB.** Minimum OS/400 level: V4R4
#2408	**Dedicated Domino Processor, 2300 Simple Mail Users, 60 RSP CPW Processor in Client/Server Environment, 15 RSP CPW in Interactive Environment. Base Memory 512 MB.** Minimum OS/400 level: V4R4
#2409	**Dedicated Domino Processor, 4300 Simple Mail Users, 120 RSP CPW Processor in Client/Server Environment, 20 RSP CPW in Interactive Environment. Base Memory 512 MB.** Minimum OS/400 level: V4R4

POWER AND PACKAGING	
#7101	**#7101 System Expansion Unit** The #7101 allows the addition of up to nine PCI cards. It includes a base controller (CCIN 2809) as standard and can have another added by ordering #2809. The #7101 can also support one #2857 Integrated PC Server or one #2866 PCI Integrated Netfinity Server. The #7101 supports up to six disks (driven by the same disk controller located in the system unit). The #7101 is mutually exclusive with a #7102. Maximum: One per system. Requires one #1402 or #1403 line cord. Not available on #2289, #2407, #2408, or #2409 processors.
#7102	**#7102 System Expansion Unit** The #7102 allows the addition of up to nine PCI cards. It includes a base controller (CCIN 2824) with 32 MB of memory as standard and can have another added by ordering #2824. The #7102 can also support one #2857 Integrated PC Server or one #2866 PCI Integrated Netfinity Server. The #7102 additionally supports up to six disks (driven by the same disk controller located in the system unit). The #7102 is mutually exclusive with a #7101. Maximum: One per system. Requires one #1402 or #1403 line cord. Minimum OS/400 level: V4R4 Not available on the #2289 processor.
#1402	**Line cord 9-feet 120 volt** Feature #1402 specifies 9 feet (2.8 m), 15 Amp, and 120 volt (U.S. default). The #1402 specify feature provides up to two line cords: one for the system and one for the expansion unit. If only the system unit is ordered, only one line cord is provided.
#1403	**Line cord 9-feet 240 volt** Feature #1402 specifies 9 feet (2.8 m), 15 Amp, and 240 volt. This specify provides up to two line cords: one for the system and one for the expansion unit. If only the system unit is ordered, only one line cord is provided.
MAIN STORAGE	
Base	There are no features to specify the base memory of 64 MB on the Model 170 #2159, #2160, #2289, #2290, and #2291 processors. There are also no features to specify for 256 MB on the Model 170 #2164, #2176, #2183, #2292, #2385, #2386, and #2388 processors, for 256 MB on the #2407 Dedicated Domino Processor, or for 512 MB on the #2408, #2409 Dedicated Domino Processors. **Note:** For main storage, which must be added in pairs, feature codes must be added in pairs. The same rules apply to quads.
#3001	**32 MB Main Storage (DIMM)** The #3001 plugs directly into the CPU or memory riser card depending on the processor feature. Must be added in pairs. Maximum: Six on all processors, except #2385, #2386 and #2388, which support a maximum of 12, and #2408, #2409, which support a maximum of 12. The #3001 is a Customer Install Feature (CIF) on a Model 170 for an MES that only includes CIF features.
#3002	**128 MB Main Storage (DIMM)** The #3002 plugs directly into the CPU or memory riser card depending on the processor feature. Must be added in pairs. Maximum: Six on all processors except #2385, #2386, and #2388, which support a maximum of 14 and Dedicated Domino processors #2408 and #2409, which support a maximum of 12. The #3002 is a Customer Install Feature (CIF) on a Model 170 for an MES that only includes CIF features.
#3003	**256 MB Main Storage (DIMM)** The #3003 plugs directly into the CPU or memory riser card depending on the processor feature. Must be added in pairs. Mixing #3003 and #3004 within pairs (or quads on the Processors #2385, #2386, and #2388 when more than eight memory features are installed) is *not* allowed. Maximum: 12. Minimum OS/400 level: V4R3 The #3003 is a Customer Install Feature (CIF) on a Model 170 for MES that only includes CIF features. Supported on processors #2385, #2386, and #2388 only.
#3004	**256 MB Main Storage (DIMM)** The #3004 plugs directly into the CPU board or memory riser card depending on the processor feature. Must be added in pairs. Mixing of #3003 and #3004 within pairs (or quads on the #2385, #2386 and #2388 processors when more than eight memory features are installed) is *not* allowed. Maximum: Two on the #2289, #2290, #2291, #2292, and #2407 processors; 12 on the #2385, #2386, and #2388 processors; 14 on the #2408 and #2409 processors Minimum OS/400 to support #2289, #2290, #2291 and #2292, #2385, #2386, #2388 processors: V4R3 Minimum OS/400 to support #2407, #2408, #2409: V4R4 The #3004 is a Customer Install Feature (CIF) on a Model 170 for MES that only includes CIF features.

WORKSTATION CONTROLLERS	
Base MFIOP	**Base Multifunction IOP (for processors #2159, #2160, #2164, #2176, #2183, #2385, #2386, #2388, #2408, and #2409)** The base system includes this MFIOP (CCIN 6757), which plugs on the processor card, and supports two high-speed PCI card slots C07, C03 and two low-speed PCI card slots C08, C09. The #2408 and #2409 processors include a #9740 Base RAID Disk Unit Controller in slot C07. The slot C07 has a #9728 Base Disk Unit Controller, a #9740 Base RAID Disk Unit Controller, a #2740, #2741, or #2748 PCI RAID Disk Unit Controller. Slots C02/C04 are reserved for one #2857 Integrated PC Server (IPCS) or #2866 PCI Integrated Netfinity Server, but can only be used if there is no card in C03. Slot C03 supports one #2723/#9723/#2724/#9724/#2838/#9738 PCI LAN IOAs, or *low-speed* #2811/#2812/#2819 ATMs, or #2745, #2750, #2751 and #2761 PCI WAN IOAs or #2746 PCI Twinaxial Workstation IOA. C08 is reserved for one base #9720/#9721 or #9745 Base PCI Two-Line WAN IOA. C09 is limited to #2721/#2722/#2745/#2746 PCI IOAs if any card is in C03. If C03 is empty, it also supports one #2723/#9723/#2724/#9724 PCI LAN IOA or #9720 Base PCI WAN/Twinaxial IOA or #2746 PCI Twinaxial Workstation IOA.
Base MFIOP	**Base Multifunction IOP (for #2289, #2290, #2291, #2292, and #2407)** The MFIOP (CCIN 675A) and the processor are combined together on the planar board. It also includes embedded base disk unit controller. A separate #9728 is not required. The #2407 includes a #9740 Base RAID Disk Unit Controller. The MFIOP drives two low-speed slots C08, C09, and two high-speed PCI slots C03 and C07. It supports #2740/#9740, #2741 or #2748 PCI RAID Disk Unit Controllers only, if there are more than four disk drives, and RAID-5 is required. Slots C02/C04 are reserved for one #2857 Integrated PC Server or #2866 PCI Integrated Netfinity Server Server, and can only be used if there is no card in slot C03. Slot C03 supports one #2723/#9723/#2724/#9724/#2838/#9738 PCI LAN IOAs, or low-speed #2811/#2812/#2819 ATMs, or #2745, #2750, #2751 and #2761 PCI WAN IOAs or #2746 PCI Twinaxial Workstation IOA. C08 is reserved for one #9720/#9721 or #9745 Base PCI Two-Line WAN IOA. C09 is limited to #2721/#2722/#2745/#2746 PCI IOAs if any card is in C03. If C03 is empty, it also supports one #2723/#9723/#2724/#9724 PCI LAN IOA or #9720 Base PCI WAN/Twinaxial IOA or #2746 PCI Twinaxial Workstation IOA. **Note:** The #2745 can be in either low or high-speed slot.
Base IOP	**Base Controller for #7101 System Expansion Unit** One LAN/WAN/Workstation IOP (CCIN 2809) is supplied as standard within the #7101 and is installed in slot E10. It provides support for two high-speed PCI card slots E08 and E09, and two low-speed PCI card slots E13 and E14. ► Slot E08 supports one of these LAN cards: #2838, #2723, #2724 or #281x ATM cards, or #2745 PCI Two-Line WAN IOA. ► Slot E09 supports the #2718 or #2729 PCI Magnetic Media Controller. ► The low-speed slots E13 and E14 support cards #2721/#2745 PCI Two-Line WAN IOA and #2722/#2746 PCI Twinaxial Workstation IOA (if any ATM card is in E08, then E13 must be empty).
Base IOP	**Base Controller for #7102 System Expansion Unit** One LAN/WAN/Workstation IOP (CCIN 2824) is supplied as standard within the #7102, and is installed in slot E10. It provides support for two high-speed PCI card slots E08 and E09, and two low-speed PCI card slots E13 and E14. ► Slot E08 supports one of these LAN cards: #2838, #2723, #2724, or #281x ATM cards or the #2745 PCI Two-Line WAN IOA or the #2746 PCI Twinaxial Workstation IOA or the #2750/#2751 PCI ISDN BRI S/T IOA, the #2761 Integrated Analog Modem, or the #4800 PCI Cryptographic Processor. ► Slot E09 supports the #2718/#2729 PCI Magnetic Media Controller the #2745 PCI Two-Line WAN IOA, the #2746 PCI Twinaxial Workstation IOA, the #2750/#2751 PCI ISDN BRI S/T IOA, the #2761 Integrated Analog Modem, or the #4800 PCI Cryptographic Processor. ► The low-speed slots E13 and E14 support cards #2721, #2722, #2723, #2724, #2745, or #2746 (if any ATM card is in E08, E13 must be empty).
Comm. Restrictions	Refer to “Comm. Restrictions” on page 34.
#2720 #9720	**#2720 Base PCI WAN/Twinaxial IOA** The #2720 is a combined twinaxial/communications adapter. It can be included as base in the Model 170. It provides four ports supporting a maximum of 28 Twinaxial devices. It also provides a single communications line to support ECS. It is mutually exclusive with #9721. PCI slots required: One Maximum: One

#2722	**#2722 Twinaxial Workstation IOA** One eight-port attachment is provided to support 40 twinaxial devices. PCI slots required: One Maximum: Five The #2722 is a Customer Install Feature (CIF) on a Model 170 for an MES that only includes CIF features.
#2746	**#2746 PCI Twinaxial Workstation IOA** One eight-port attachment is provided to support 40 twinaxial devices. The #2746 can be attached both to high- and low-speed slots. PCI slots required: One Maximum: Five Minimum OS/400 level: V4R4 The #2746 is a Customer Install Feature (CIF) on a Model 170 for an MES that only includes CIF features.
#2809	**#2809 PCI LAN/WAN/Workstation IOP** The #2809 provides support for two low-speed PCI card slots E11 and E12, also one high-speed PCI card slot E03. It is a feature controller for LAN/WAN/Workstation in the #7101 System Expansion Unit. It can be ordered and installed in E07 in the #7101 System Expansion Unit only. One #2809 PCI LAN/WAN/Workstation IOP is supplied as standard within the #7101 with no feature required. (See "Base IOP" on page 211). ► Slot E03 can only be used if no #2857 Integrated PC Server or #2866 PCI Integrated Netfinity Server card is installed in slots E02/E04. ► Slot E03 supports one #2718, #2729, #2723, #2724, #2745, #2838, or #281x. ► Slots E11 and E12 support #2721/#2745 PCI Two-Line WAN IOA and #2722/#2746 PCI Twinaxial Workstation IOA. Maximum: One in #7101 System Expansion Unit The #2809 does not attach to the #7102 System Expansion Unit The #2809 is a Customer Install Feature (CIF) on a Model 170 for an MES that only includes CIF features.
#2824	**#2824 PCI Feature Controller** The #2824 PCI Feature Controller for LAN/WAN/Workstation has 32 MB of memory and can be ordered and installed in slot E07 in the #7101 and #7102 System Expansion Unit. In the #7101 System Expansion Unit, one #2809 PCI LAN/WAN/Workstation IOP is supplied as standard with no feature required. See "Base IOP" on page 211. The #2824 provides support for two low-speed PCI card slots E11 and E12, and one high-speed PCI card slot E03. ► Slot E03 can only be used if no #2857 Integrated PC Server or #2866 PCI Integrated Netfinity Server card is installed in slots E02/E04. ► Slot E03 supports one #2718, #2729, #2723, #2724, #2745, #2746, #2750, #2751, #2761, #281x, #2838, or #4800. ► Slots E11 and E12 supports #2721, #2722, #2723, #2724, #2745, and #2746. In the #7102 System Expansion Unit, one #2824 PCI Feature Controller is supplied as standard with no feature required. See "Base IOP" on page 211. The #2824 PCI Feature Controller provides support for two low-speed PCI card slots E11 and E12, also one high-speed PCI card slot E03. ► Slot E03 can only be used if no #2857 Integrated PC Server (IPCS) or #2866 PCI Integrated Netfinity Server card is installed in slots E02/E04. ► Slot E03 supports one #2718, #2729, #2723, #2724, #2745, #2746, #2750, #2751, #2761, #281x, #2838, or #4800. ► Slots E11 and E12 supports #2721, #2722, #2723, #2724, #2745, and #2746. Maximum: One in the #7101/#7102 System Expansion Unit. One #2750, #2751, or #2761 per #2824 PCI Feature Controller. Minimum OS/400 level: V4R4 The #2824 is a Customer Install Feature (CIF) on a Model 170 for an MES that only includes CIF features.
COMMUNICATIONS	
#2720 #9720	**#2720 Base PCI WAN/Twinaxial IOA** The #2720 is a combined twinax/communication adapter. It is provided on the base system and supports a single communications line intended for ECS. One ##0348 V.24/EIA232 20-ft. (6m) PCI cable must be specified. The #2720/#9720 also supports twinax workstations. PCI card slots required: One Maximum: One The #2720/#9720 is mutually exclusive with the #9721 and #9745.

#2721	**PCI Two-Line WAN IOA** The #2721 supports up to two multiple protocol communications ports when one or two of these cables are attached: #0348 V.24/EIA232 20-ft. (6m) PCI cable #0349 V.24/EIA232 50-ft. (15m) PCI cable #0353 V.35 20ft/6m PCI cable #0354 V.35 50ft/6m PCI cable #0355 V.35 80ft/6m PCI cable #0356 V.36 20ft/6m PCI cable #0358 V.36 150ft/45m PCI cable #0359 X.21 20ft/6m PCI cable #0360 X.21 50ft/15m PCI cable #0365 V.24/EIA 232 80ft/24m PCI cable There are some restrictions on communications using #2721. PCI slots required: One (low-speed only) The #2721 is a Customer Install Feature (CIF) on a Model 170 for an MES that only includes CIF features.
#2745	**#2745 PCI Two-Line WAN IOA** The #2745 supports up to two multiple protocol communications ports when one or two of these cables are attached: #0348 V.24/EIA232 20-ft. (6m) PCI cable #0349 V.24/EIA232 50-ft. (15m) PCI cable #0353 V.35 20ft/6m PCI cable #0354 V.35 50ft/6m PCI cable #0355 V.35 80ft/6m PCI cable #0356 V.36 20ft/6m PCI cable #0358 V.36 150ft/45m PCI cable #0359 X.21 20ft/6m PCI cable #0360 X.21 50ft/15m PCI cable #0365 V.24/EIA 232 80ft/24m PCI cable There are some restrictions on communications using the #2745. PCI slots required: One (low or high-speed). Minimum OS/400 level: V4R3 The #2745 is a Customer Install Feature (CIF) on a Model 170 for an MES that only includes CIF features.
#2750	**#2750 PCI ISDN BRI U Adapter** (available in the United States and Canada only) The #2750 is a four-port (8 channel) ISDN BRI (basic rate) full sized PCI card. Each port consists of 2B+D configuration. The #2750 is the “U”-bus (2 wire) version of the ISDN BRI PCI card. The #2750 feature supports these protocols: PPP (communicates with remote analog modems (V.90) as well as with remote ISDN devices) IDLC Fax Four 30-ft. (9.3 m) RJ-45 to RJ-45 network cables are shipped with each #2750 feature. For configuration purposes, each #2750 counts as eight lines (two lines per port) towards the system communication maximums. Allowed in high-speed slots C03 (base unit), E03, E08, or E09 (system expansion unit). Supports full duplex. Minimum OS/400 level: V4R4 with PTF MF22528 (or supersede) or cumulative PTF Package C9313440 or later. Prerequisite: For attachment to a system expansion unit, the #2824 PCI Feature Controller is required. One #2824 is base in the #7102 System Expansion Unit. Requirements: The #2750 requires country certification or homologation. Full sized PCI card slot. Maximum: One per IOP. The #2750 is a Customer Install Feature (CIF) on a Model 170 for an MES that only includes CIF features.

#2751	**#2751 PCI ISDN BRI S/T IOA** The #2751 is a four-port (eight channel) ISDN BRI (basic rate) full sized PCI card. Each port consists of 2B+D configuration. The #2751 is the “S/T”-bus (four wire) version of the ISDN BRI PCI card. **Note**: This requires a network terminating device in the circuit. In the United States and Canada, this must be provided by the customer. In other countries, it is most likely provided by the telephone company. The #2751 supports these protocols: PPP (communicates with remote analog modems (V.90) as well as with remote ISDN devices) IDLC Fax Four 30-ft. (9.3 m) RJ-45 to RJ-45 network cables are shipped with each #2751 feature. For configuration purposes, each #2751 counts as eight lines (two lines per port) towards the system communication maximums. Allowed in high-speed slots C03 (base unit), E03, E08, or E09 (system expansion unit). Supports full duplex. Minimum OS/400 level: V4R4 with PTF MF22528 (or supersede) or cumulative PTF Package C9313440 or later. Prerequisite: For attachment to a system expansion unit, #2824 PCI Feature Controller is required. One #2824 is base in the #7102 System Expansion Unit. Requirements: The #2751requires country certification or homologation. Full sized PCI card slot. Maximum: One per IOP. The #2751 is a Customer Install Feature (CIF) on a Model 170 for an MES that only includes CIF features.
#2761	**#2761 Integrated Analog Modem** The #2761 allows the modem function to be integrated into the IOA and supports multiple analog modem ports (eight phone lines). The #2761 runs these protocols without the need for an external modem: SLIP/PPP uses V.90, so maximum line speed is 56 Kbps. SDLC uses V.34, so maximum line speed is 33.6 Kbps. Fax uses V.17 to achieve a 14.4 Kbps maximum line speed. An asynchronous line description is required for Fax and can only be used for Fax. An ECS line is not supported. Eight 30-ft. (8 m) phone cables are shipped with each #2761. To the iSeries or AS/400e server, the #2761 appears like a single IOA with eight individual resources available. For configuration purposes, each #2761 counts as eight communications lines. Allowed in high-speed slots C03 (base unit), E03, E08, or E09 (system expansion unit). Supports full duplex. Minimum OS/400 level: V4R4 with PTF MF22528 (or supersede) or cumulative PTF Package C9313440 or later. Prerequisite: For attachment to a system expansion unit, #2824 PCI Feature Controller is required. One #2824 is base in the #7102 System Expansion Unit. Supports full duplex. Requirements: The #2761requires country certification or homologation. Full sized PCI card slot. Maximum: One per IOP. The #2761 is a Customer Install Feature (CIF) on a Model 170 for an MES that only includes CIF features.
#2809	**#2809 PCI LAN/WAN/Workstation IOP** The #2809 can also be used in a #7101 System Expansion Unit to attach LAN, WAN, and Workstation IOAs to the system. Refer to the #2809 description in “WORKSTATION CONTROLLERS” on page 211 for full information about this controller. The #2809 is a Customer Install Feature (CIF) on a Model 170 for an MES that only includes CIF features.
#2824	**#2824 PCI Feature Controller** The #2824 can be used for attaching LAN, WAN, and Workstation IOAs to the system. Maximum: One per system expansion unit The #2824 is a Customer Install Feature (CIF) on a Model 170 for an MES that only includes CIF features.
#4800	**#4800 PCI Cryptographic Processor** The #4800 coupled with OS/400 operating system Option 35 and Cryptographic Service Provider APIs, provides rich cryptography function and secure storage of cryptographic keys. The level of cryptographic function is determined by the Cryptographic Access Provider Licensed Program, which is downloaded to the adapter. Due to temperature requirements, the #4800 is shipped separately from the system in a special package. Prerequisite: #7101 System Expansion Unit with #2824 PCI Feature Controller, or #7102 System Expansion Unit. PCI card slot required: One Maximum: One per IOP. Minimum OS/400 level: V4R4

#9721	**#9721 Base PCI Two-Line WAN IOA** The #9721 two-line communications adapter supports ECS and Operations Console or Client Access Console. This cable must be specified for ECS: #0348 V.24/EIA232 20-ft. (6m) PCI cable This additional cable must be specified for Client Access Console: #0362 20-ft. (6m) Client Access Console PCI Cable (optional) Features #0362 and #0367 are mutually exclusive. A #9721 is used to support the Operations Console function on V4R3: #0367 Operations Console PCI Cable. Required and defaulted by the configurator. To support the Remote Control Panel function, the #0381 Remote Control Panel Cable can be ordered as an option. The #0381 cable does not attach to a communication port. PCI card slots required: One (low-speed only) Maximum: One The #9721 is mutually exclusive with the #9720 and #9745.
#9745	**#9745 Base PCI Two-Line WAN IOA** The #9745 two-line communications adapter supports ECS and Client Access Console or Client Access Console. These cables must be specified for ECS: #0348 V.24/EIA232 20-ft. (6m) PCI cable #0349 V.24/EIA232 50-ft. (15m) PCI cable #0353 V.35 20-ft./6m PCI cable #0354 V.35 50-ft./6m PCI cable #0355 V.35 80-ft./6m PCI cable #0356 V.36 20-ft./6m PCI cable #0358 V.36 150-ft./45m PCI cable #0359 X.21 20-ft./6m PCI cable #0360 X.21 50-ft./15m PCI cable #0365 V.24/EIA 232 80-ft./24m PCI cable #0367 Operations Console PCI Cable 20 ft. (6m)* A #9745 must be ordered for Client Access Console: #0362 20-ft. (6m) Client Access Console Cable (support only with V4R4) These features are used to support the Operations Console functions (default): #0367 Operations Console PCI Cable 20 ft. (6m). Defaulted by the configurator. Not required if #2746 is ordered. #0362 and #0367 are mutually exclusive. To support the Remote Control Panel function, the #0381 Remote Control Panel Cablee can be ordered as an option. The #0381 cable does not attach to a communication port. PCI card slots required: One (low or high-speed) When the #9745 is installed in slot C03, the #9724 PCI Token Ring IOA must be removed from the base system unit and can either be removed from the configuration or ordered or moved into a #7101 System Expansion Unit, except for #2289 processor. The #9745 is mutually exclusive with the #9720 and #9721. Minimum OS/400 level: V4R3
LANS AND ATM	
#2723 #9723	**#2723 PCI Ethernet IOA** The #2723/#9723 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 a RJ45 connector and a 15 pin D-shell connector for attachment of customer supplied cabling. The Ethernet/IEEE 802.3 IOA is capable of operating in half or full duplex mode. AUI Ethernet or RJ45 twisted pair cable must be ordered separately. Cabling must meet or exceed Industry Standard EIA/TIA T568B. The #9723 is a base LAN. If #9723/#2723 PCI Ethernet IOA is selected to run on #2857 Integrated PC Server/#2866 PCI Integrated Netfinity Server, then one #0221 Ethernet on IPCS or Integrated Netfinity Server is required for each #2723/#9723 ordered. PCI slots required: One The #2723 is a Customer Install Feature (CIF) on a Model 170 for an MES that only includes CIF features.

#2724 #9724	**#2724 PCI 16/4 Mbps Token Ring IOA** The #2724/#9724 provides a single attachment to a 16 Mbps or a 4 Mbps Token Ring Network. It consists of an adapter card, internal code that supplies IEEE 802.5 Media Access Control (MAC) and IEEE 802.2 Logical Link Control (LLC) functions and an external 8-ft. (2.4m) cable. Alternatively a twisted pair cable for attachment to the RJ45 connector on the IOA can be ordered separately. The #9724 is a base LAN. If the #2724/#9724 PCI Token Ring IOA is selected to be run on a #2857 Integrated PC Server/#2866 PCI Integrated Netfinity Server, then one #0220 Token Ring on IPCS or Integrated Netfinity Server is required for each #2724/#9724. The IOA is capable of operating in half or full duplex mode. PCI slots required: One The #2724 is a Customer Install Feature (CIF) on a Model 170 for an MES that only includes CIF features.
#2809	**#2809 PCI LAN/WAN/Workstation IOP** The #2809 can also be used in the #7101 System Expansion Unit to attach LAN, WAN, and Workstation IOAs to the system. Refer to the #2809 description in “WORKSTATION CONTROLLERS” on page 211 for full information about this controller. The #2809 is a Customer Install Feature (CIF) on a Model 170 for an MES that only includes CIF features.
#2824	**#2824 PCI Feature Controller (LAN/WAN/Workstation)** The #2824 can be used for attaching additional LAN, WAN, and Workstation IOAs in the #7102 System Expansion Unit. For full details, refer to“Base IOP” on page 211. Maximum: One in the #7101/#7102 System Expansion Unit. The #2824 is a Customer Install Feature (CIF) on a Model 170 for an MES that only includes CIF 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 speeds are required over distances of less 100 meters. Technical specifications and industry standards supported are available at the ATM Forum Web site: http://www.atmforum.com High-speed PCI slots required: One The #2811 is a Customer Install Feature (CIF) on a Model 170 for an MES that only includes CIF features.
#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/DS3 interface. The #2812 is typically used where 45 Mbps speeds are 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 High-speed PCI slots required: One The #2812 is a Customer Install Feature (CIF) on a Model 170 for an MES that only includes CIF features.
#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. Technical specifications and industry standards supported are available at the ATM Forum Web site: http://www.atmforum.com The #2815 is typically used where 155 Mbps speeds are required over distances of less than 100 meters. Prerequisite: #7101 or #7102 System Expansion Unit. High-speed PCI slots required: One The #2815 is a Customer Install Feature (CIF) on a Model 170 for an MES that only includes CIF features.
#2816	**#2816 PCI 155 Mbps MMF ATM IOA** The #2816 provides attachment into an Asynchronous Transfer Mode (ATM) network using the Multi-Mode Fiber (MMF) 62.5 micron interface. This interface is intended for connection to both local area switches and direct connection to service provider equipment. Technical specifications and industry standards supported are available at the ATM Forum Web site: http://www.atmforum.com The #2816 is typically used where 155 Mbps speeds are required over distances of less than 2 kilometers. Prerequisite: #7101 or #7102 System Expansion Unit. High-speed PCI slots required: One The #2816 is a Customer Install Feature (CIF) on a Model 170 for an MES that only includes CIF features.
#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. Technical specifications and industry standards supported are available at the ATM Forum Web site: http://www.atmforum.com The #2818 is typically used where 155 Mbps speed is required over distances of 16 to 40 kilometers. Prerequisite: #7101 or #7102 System Expansion Unit. High-speed PCI slots required: One The #2818 is a Customer Install Feature (CIF) on a Model 170 for an MES that only includes CIF features.

#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 High-speed PCI slots required: One The #2819 is a Customer Install Feature (CIF) on a Model 170 for an MES that only includes CIF features.
#2838 #9738	**#2738/#9738 PCI 100/10 Mbps Ethernet IOA** The #2838/#9738 provides attachment to standard 100 Mbps high-speed Ethernet LANs and allows attachment to existing 10 Mbps Ethernet LANs. The #9738 is a base LAN. If a #2738/#9738 PCI 100/10 Mbps Ethernet IOA is selected to run on a #2857 Integrated PC Server or #2866 PCI Integrated Netfinity Server, then one specify #0222 100/10 Mbps Ethernet on IPCS/Integrated Netfinity Server is required. The IOA is capable of operating in half or full duplex mode. The adapter comes standard with an RJ45 connector for attachment to UTP-5 media #9738 is a base LAN. Cabling for 10 Mbps must be CAT-3 or CAT-5, cabling for 100 Mbps must be CAT-5 that meets or exceeds Industry Standard EIA/TIA T568A or T568B. Maximum cable length is 100 meters. High-speed PCI slots required: One The #2838 is a Customer Install Feature (CIF) on a Model 170 for an MES that only includes CIF features.
#2857	**#2857 Integrated PC Server** The #2857 contains a 200 MHz Pentium Processor, four main storage slots and two LAN IOA slots for high performance serving to LAN attached PCs. Between one and four of these main storage features must also be ordered: #2861 32 MB Integrated PC Server Memory #2862 128 MB Integrated PC Server Memory Minimum one and maximum two of any of these LAN IOAs are supported. Only one of the IOAs can be #2838/#9738: #2723 PCI Ethernet IOASpecify #0221 is required for each IOA ordered. #2724 PCI 16/4 Mbps Token Ring IOASpecify #0220 is required for each IOA ordered #2838 PCI 100/10 Mbps Ethernet IOASpecify #0222 is required for each IOA ordered Only one of these base LAN IOAs is supported: #9723 PCI Ethernet IOASpecify #0221 is required for each IOA ordered #9724 PCI Token Ring IOASpecify #0220 is required for each IOA ordered #9738 PCI 100/10 Mbps Ethernet IOASpecify #0222 is required for each IOA ordered The #2857 also comes with an external attach cable which provides industry standard keyboard, mouse. This also allows for optional use of serial and parallel ports. If running Windows NT on the #2857, then: #0325 Integrated PC Server Extension Cable for Windows NT is required. #1700 Integrated PC Server Keyboard/Mouse for Windows NT is default in the U.S.A. A display must be connected to the IPCS to support Windows NT. For country-specific keyboard/mouse and display support, access the site at: http://www.ibm.com/eserver/iseries/windowsintegration/ If running OS/2 on the #2857, then: #0325 and #1700 are not allowed. If running Novell Netware on the #2857, then: #0325 and #1700 are not allowed. A maximum of 256 MB IOP memory is supported. PCI slots required: Two in reserved positions in the base system unit or in the #7101 System Expansion Unit. The #2857 is a Customer Install Feature (CIF) on a Model 170 for an MES that only includes CIF features.
#2866	**#2866 PCI Integrated Netfinity Server** The #2866 PCI Integrated Netfinity Server contains a 333 MHz Pentium II Processor, two LAN IOA slots for high performance serving to LAN-attached PCs, and four main storage slots. The four main storage slots can each contain one of these features, giving a maximum of 1024 MB. No base main store Memory supplied, at least one main storage feature is required: #2861 32 MB Integrated PC Server Memory #2862 128 MB Integrated PC Server Memory #2867 256 MB Integrated PC Server Memory Minimum one and maximum two of any of these LAN IOAs are supported: Only one of the IOAs can be #2838/#9738: #2723 PCI Ethernet IOA Specify #0221 is required for each IOA ordered. #2724 PCI 16/4 Mbps Token Ring IOA Specify #0220 is required for each IOA ordered #2838 PCI 100/10 Mbps Ethernet IOA Specify #0222 is required for each IOA ordered. Only one of these base LAN IOAs is supported: #9723 PCI Ethernet IOA Specify #0221 is required for each IOA ordered #9724 PCI Token Ring IOA Specify #0220 is required for each IOA ordered #9738 PCI 100/10 Mbps Ethernet IOA Specify #0222 is required for each IOA ordered.

#2866 (cont.)	If running Windows NT on the #2866, then: A minimum of 64MB IOP memory is required. #0325 PCI Integrated Netfinity Server Extension Cable for Windows NT is required. #1700 PCI Integrated Netfinity Server Keyboard/Mouse for Windows NT, is the default in the U.S.A. A display unit is required to support Windows NT. For country-specific keyboard/mouse and display support, access the site at: http://www.ibm.com/eserver/iseries/windowsintegration/ If running OS/2 on the #2866, then: #0325 and #1700 are not allowed. A maximum of 512 MB IOP Memory is supported on OS/2. If running Novell Netware on the #2866, then: #0325 and #1700 are not allowed. A maximum of 256 MB IOP memory is supported on Novell Netware. Minimum OS/400 level: V4R2 with CUM C8342420 or V4R3 with CUM C8349430. The #2866 is a Customer Install Feature (CIF) on a Model 170 for an MES that only includes CIF features.
DISK UNITS	
#6607	**#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 unit. The #6607 is supported for upgrades only. Needs the RPQ 843978 and is supported in the 170 system unit and the #7101 or #7102 System Expansion Unit. Supported but not orderable.
#6713	**#6713 8.58 GB Disk Unit (Two-byte) (Ultra SCSI)** The #6713 provides a 3 ½-inch single disk unit with 8.58 GB capacity for additional disk unit. The #6713 is supported for upgrades only. Needs the RPQ 843978 and is supported in the 170 system unit and the #7101 or #7102 System Expansion Unit. Supported but not orderable.
#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 unit. The #6714 is supported for upgrades only. Needs the RPQ 843978 and is supported in the 170 system unit and the #7101 or #7102 System Expansion Unit. Supported but not orderable.
#6807	**#6807 4.19 GB Additoinal Two byte Disk Unit** The #6807 provides a 3 ½-inch single disk unit with 4.19 GB capacity for additional disk unit. The #6807 is a Customer Install Feature (CIF) on a Model 170 for an MES that only includes CIF features.
#6813	**#6813 8.58 GB Additional Two-byte Disk Unit (Ultra SCSI)** The #6813 provides a 3 ½-inch single disk unit with 8.58 GB capacity for additional disk unit. The #6813 is a Customer Install Feature (CIF) on a Model 170 for an MES that only includes CIF features.
#6817	**#6817 8.58 GB 10k RPM Disk Unit (Two-byte) (Ultra SCSI)** The #6817 provides a 3 ½-inch single disk unit with 8.58 GB of high-performance (10k RPM) capacity Minimum OS/400 level: V4R3 The #6817 is a Customer Install Feature (CIF) on a Model 170 for an MES that only includes CIF features.
#6818	**#6818 17.54 GB 10k RPM Disk Unit (Two-byte) (Ultra SCSI)** The #6818 provides a 3 ½-inch single disk unit with 17.54 GB of high-performance (10k RPM) capacity. Minimum OS/400 level: V4R4 The #6818 is a Customer Install Feature (CIF) on a Model 170 for an MES that only includes CIF features.
#6824	**#6824 17.54 GB Disk Unit (Two-Byte) (Ultra SCSI)** The #6824 provides a 3 ½-inch single disk unit with 17.54 GB capacity for additional disk storage. Integrated hardware disk compression is supported. Minimum OS/400 level: V4R4 The #6824 is a Customer Install Feature (CIF) on a Model 170 for an MES that only includes CIF features.
#6831	**#6831 1.6 GB Read Cache Device** The #6831 provides 1.6 Gb of capacity for large read cache function. It is mutually exclusive with DASD compression. The system arrives in performance mode with the compression function turned off on the disk controller. Mirroring is not supported on the #6831. Prerequisites: #2748 PCI RAID Disk Unit Controller. One DASD slot. Minimum OS/400 level: V4R4 Maximum: One per #2748 PCI RAID Disk Unit Controller.

#6907	**#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 unit. The #6907 is supported for upgrades only. Requires the RPQ 843978. Is supported in the 170 system unit and the #7101 or #7102 System Expansion Unit. Supported but not orderable.
#8813	**8.58 GB Optional Base Two-byte Disk Unit (Ultra SCSI)** The #8813 provides a 3 ½-inch single disk unit with 8.58 GB capacity as the optional base disk unit in place of #9707.
#8817	**#8817 8.58 GB Optional Base Two-byte Disk Unit 10k RPM (Ultra SCSI)** The #8817 provides a 3 ½-inch single disk unit with 8.58 GB of high-performance (10k RPM) capacity Minimum OS/400 level: V4R3
#8818	**#8818 17.54 GB Optional Base Two-byte Disk Unit 10k RPM (Ultra SCSI)** The #8818 provides a 3 ½-inch single disk unit with 17.54 GB of high-performance (10k RPM) capacity Minimum OS/400 level: V4R4
#8824	**17.54 GB Optional Base Two-byte Disk Unit (Ultra SCSI)** The #8824 provides a 3 ½-inch single disk unit with 17.54 GB capacity as the optional base disk unit in place of #9707. Supports integrated hardware disk compression. Minimum OS/400 level: V4R4
#9707	**#9707 4.19 GB Base Two-byte Disk Unit (Ultra SCSI)** The #9707 provides a 3 ½-inch single disk unit with 4.19 GB capacity as the base disk unit.
INTERNAL TAPE UNITS	
#6381	**#6381 2.5 GB ¼-inch Cartridge Tape** The #6381 can be used for save/restore, alternate IPL, migration, and ¼-inch cartridge tape exchange using the appropriate media and density. It should be ordered when compatibility with System/36 ¼-inch cartridge tape unit is required. The #6381 is a Customer Install Feature (CIF) on a Model 170 for an MES that only includes CIF features.
#6382	**#6382 4 GB ¼-inch Cartridge Tape Unit** The #6382 can be used for save/restore, alternate IPL, migration, and ¼-inch cartridge tape exchange using the appropriate media and density. This tape unit is not compatible with System/36 ¼-inch cartridge tape units. The #6382 is a Customer Install Feature (CIF) on a Model 170 for an MES that only includes CIF features.
#6383	**#6383 16 GB ¼-Inch Cartridge Tape Unit** The #6383 is mounted in the system unit. With a data rate of 1.5 Mbps and capacity of 16 Gb per cartridge (3 MB/sec and 32 Gb per cartridge with data compaction), the #6383 provides a growth path for the large number of iSeries and AS/400e servers that use QIC tape technology for save/restore. The #6383 is controlled by the MFIOP. The #6383 provides read/write compatibility with these formats: 16 GB (up to 32 GB with compression in QIC5010 format) with IBM MLR-116GB Data Cartridge 13 GB (up to 26 GB with compression in QIC5010 format) with IBM DC5010 Data Cartridge. The #6383 provides read compatibility with these formats: 8 GB (QIC4DC compressed format) with SLR5-4GB Data Cartridge 5 GB (QIC2DC compressed format) with IBM DC9250 Data Cartridge 4 GB (QIC4GB format) with SLR5-4GB Data Cartridge 2.5 GB (QIC2GB format) with IBM DC9250 Data Cartridge Minimum OS/400 level: V4R2 The #6383 is a Customer Install Feature (CIF) on a Model 170 for an MES that only includes CIF features.
#6384	**#6384 30 GB ¼-inch Cartridge Tape Unit** The #6384 is a 30 GB ¼-inch cartridge tape unit that can be mounted in a removable media device slot of a system unit or an expansion tower. The #6384 maybe used for save/restore, alternate IPL, program distribution, migration and ¼-inch cartridge tape exchange. See 16.8, “QIC format compatibility for iSeries and AS/400e systems” on page 531, for supported media types. The #6384 can be mounted in the system unit of the Model 170. The #6384 is a Customer Install Feature (CIF).
#6385	**#6385 13 GB ¼-Inch Cartridge Tape Unit** The #6385 can be used for save/restore, alternate IPL, migration, and ¼-inch cartridge tape exchange using the appropriate media and density. This tape unit is not compatible with System/36 ¼-inch cartridge tape units. The #6385 is a Customer Install Feature (CIF) on a Model 170 for an MES that only includes CIF features. #6385 may be converted to #6383 or #6386 for a fee.
#6386	**#6386 25 GB ¼-inch Cartridge Tape Unit** The #6386 can be used for save/restore, alternate IPL, migration, and ¼-inch cartridge tape exchange using the appropriate media and density. This tape unit is not compatible with System/36 ¼-inch cartridge tape units. The #6386 is a Customer Install Feature (CIF) on a Model 170 for an MES that only includes CIF features.

MAGNETIC MEDIA CONTROLLERS	
#2718	**#2718 PCI Magnetic Media Controller** The #2718 is an Ultra SCSI Tape IOA that provides attachment capability for the IBM 7207-122 QIC-SLR Tape Bridge Box. The #2718 can attach one tape drive. Prerequisite: #7101/#7102 System Expansion Unit. Minimum OS/400 level: V4R2 The #2718 is a Customer Install Feature (CIF) on a Model 170 for an MES that only includes CIF features.
#2729	**#2729 PCI Magnetic Media Controller** The #2729 provides SCSI attachment for one 3490E C11/C22/C1A/C2A with feature #5040, 3490E Exx, 3490E Fxx, 3494 D1x or L1x, 3570, 3590, 7208, 9348 or 9427 Tape Subsystem Models or 3995 Optical Library Dataserver - Model C43x. Prerequisite: #7101/ #7102 System Expansion Unit High-speed PCI slots required: One Maximum: Two The #2729 is a Customer Install Feature (CIF) on a Model 170 for an MES that only includes CIF features.
#2740	**#2740 PCI RAID Disk Unit Controller—4 MB Cache (RAID/Mirrored/Unprotected)** The #2740 is an Ultra SCSI controller that provides RAID protection and a 4 MB write-cache for up to ten disks installed in the base system unit and the #7101 System Expansion Unit. A minimum of four drives and a maximum of ten drives are supported in each array. A maximum of two arrays are supported on the #2740. The #2740 also supports one CD-ROM drive (comes as standard) and one internal tape drive. Supports #6381, #6382, #6384, or #6385 tape units. Mutually exclusive with #9728 and #2741. The #2740 does not support integrated hardware disk compression. High-speed PCI slots required: One Maximum: One
#2741	**#2741 PCI RAID Disk Unit Controller—4 MB Cache (RAID/Mirrored/Unprotected)** The #2741 is an Ultra SCSI controller that provides RAID protection and a 4 MB write-cache for up to ten disks installed in the base system unit and #7101 System Expansion Unit. A minimum of four drives and a maximum of ten drives are supported in each array. A maximum of two arrays are supported on the #2741. The #2741 also supports one CD-ROM drive (comes as standard) and one internal tape drive. Supports the #6381, #6382, #6384, or #6385 tape units. Mutually exclusive with #9728 and #2740. High-speed PCI slots required: One Maximum: One The #2741 is no longer available for new orders. It is supported as a migrated feature. Minimum OS/400 to support integrated hardware disk compression: V4R3 Minimum OS/400 to support integrated hardware disk compression on #6824/#8824 17.54 GB Disk Unit: V4R4
#2748	**#2748 PCI RAID Disk Unit Controller—26 MB Cache (RAID/Mirrored/Unprotected)** The #2748 SCSI controller with 26 MB write-cache provides RAID-5 protection and DASD compression capability for internal disk units, and supports internal tape and CD-ROM units. The #2748 controls Ultra and Fast Wide SCSI disk units installed in the base system and the #7101/#7102 System Expansion Unit. In addition to providing RAID-5 and compression, the #2748 also works as a high-performance controller for disks protected by system mirroring or disks with no protection. In the RAID-5 configuration, disk unit protection is provided at less cost that mirroring, and with greater performance than checksums. The #2748 also supports the #6831 1.6 GB Read Cache Device, which is mutually exclusive with DASD compression. The #2748 supports a maximum of 10 disk units. A minimum of four disk units of the same capacity are needed for a valid RAID-5 configuration. A maximum of two arrays are allowed per controller, with a maximum of ten disk units per array. All disk units in an array must be of the same capacity. Parity is spread across four disk units for arrays of four to seven disk units. For systems started with eight disk units in an array, the parity for that array is spread across eight disk units. For systems that are started with less than eight disk units in an array and later upgraded to eight, nine, or ten disk units, the RAID function must be stopped and then started before the parity is spread across eight disk units. The #2748 supports one CD-ROM and one internal tape unit, and concurrent DASD maintenance. One disk controller PCI card slot is required. Maximum: One Minimum OS/400 level: V4R4
#9728	**#9728 Base Disk Unit Controller** The #9728 is the base IOA for the system unit. Provides Ultra SCSI attachment for up to four disk units, one CD-ROM drive (standard), and one internal tape drive. Does not support RAID. Supports #6381, #6382, #6384, or #6385 tape units. Mutually exclusive with #2740 and #2741. The #9728 does not support integrated hardware disk compression. The #9728 is not required for #2289, #2290, #2291 and #2292 processors for up to four disk drives. The #9728 has CCIN 2728. High-speed PCI slots required: One. Maximum: One

#9740	**#9740 Base RAID Disk Unit Controller** The #9740 Base RAID Disk Unit Controller supports up to 10 internal disk units, one internal tape, and one internal CD-ROM. The #9740 is designed to control Ultra, Fast Wide, and Fast Narrow SCSI disk and tape units that are installed in the base system unit and the #7102 System Expansion Unit. #2740 PCI RAID Disk Unit Controller is not supported on any Domino Server Processor. #2748 PCI RAID Disk Unit Controller is a high performance controller with compression which can be substituted (without credit) for the #9740 Base RAID Disk Unit Controller. The #9740 is included with, and only available on all #2407, #2408, and #2409 Domino Server processors. The #9740 supports Concurrent DASD add/maintenance. Maximum: One Minimum OS/400 level: V4R4 to support #2748.

8.5 AS/400e Model 170 upgrades

To	V4R2/V4R3				V4R3/V4R4/V4R5									
From	**#2160**	**#2174**	**#2176**	**#2183**	**#2289**	**#2290**	**#2291**	**#2292**	**#2385**	**#2386**	**#2388**	**#2407**	**#2408**	**#2409**
170 #2159	X	X	X	X					X	X	X			
170 #2160		X	X	X					X	X	X			
170 #2164			X	X					X	X	X			
170 #2176				X					X	X	X			
170 #2183										X	X			
170 #2289						X	X	X	X	X				
170 #2290							X	X	X	X	X			
170 #2291								X	X	X	X			
170 #2292									X	X	X			
170 #2385										X	X			
170 #2386											X			
170 #2388														
170 #2407													X	X
170 #2408														X
170 #2409														

8.6 AS/400e RISC-to-RISC data migration

The #0205 specify code is used when a customer orders a new (RISC) AS/400e server to replace an existing (RISC) AS/400e server. The #0205 can be ordered on any initial order AS/400e server 170 model. Preloading Licensed Programs, by manufacturing, is not allowed with the #0205. Manufacturing only loads SLIC and up through QSYS of OS/400 when the #0205 is ordered. The #0205 and #5000 are mutually exclusive.