

AS/400e 150 models

Model and processor	Announce date	General availability date	Withdrawn from marketing
150 0181	01 October 1996	08 November 1996	12 December 1997
150 0182	01 October 1996	08 November 1996	12 December 1997
150 0183	01 October 1996	08 November 1996	12 December 1997
150 0184	01 October 1996	08 November 1996	12 December 1997
1500 0191	19 August 1997	29 August 1997	31 August 1998
150 0192	19 August 1997	29 August 1997	31 August 1998
150 0193	19 August 1997	29 August 1997	31 August 1998
150 0194	19 August 1997	29 August 1997	31 August 1998
150 0291	10 February 1998	27 February 1998	31 December 1999
150 0391	01 September 1998*	11 September 1998	31 December 1999
150 0591	09 February 1999	21 May 1999	31 October 2000
150 0292	10 February 1998	27 February 1998	31 December 1999
150 0392	01 September 1998	11 September 1998	31 December 1999
150 0592	09 February 1999	21 May 1999	31 October 2000
150 0293	10 February 1998	27 February 1998	31 December 1999
150 0393	01 September 1998	11 September 1998	31 December 1999
150 0593	09 February 1999	21 May 1999	31 October 2000
150 0294	10 February 1998	27 February 1998	31 December 1999
150 0394	01 September 1998	11 September 1998	31 December 1999
150 0594	09 February 1999	21 May 1999	31 October 2000
* Translated versions of 01 September announcement available on 25 September 1998.			

7.1 AS/400e 150 model overview

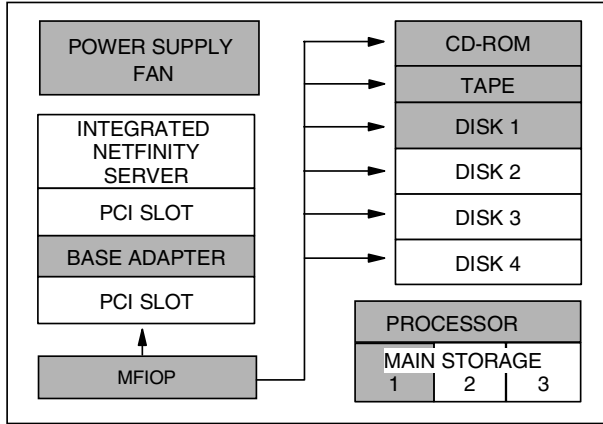
Package	Twinax Entry #0181	Twinax Growth #0182	Server Entry #0183	Server Growth #0184	Twinax Entry #0191	Twinax Growth #0192	Server Entry #0193	Server Growth #0194
Minimum software release	V3R7	V3R7	V3R7	V3R7	V4R1	V4R1	V4R1	V4R1
Relative system performance (CPW-V3R7)								
Constrained ¹	10.9/10.9	10.9/10.9	10.9/10.9	10.9/10.9	N/A	N/A	N/A	N/A
Unconstrained ¹	13.8/27.0	20.6/33.3	13.8/27.0	20.6/33.3	N/A	N/A	N/A	N/A
Relative system performance (CPW-V4R1, V4R2/R3)								
Constrained ¹	13.8/20.2	20.2/20.2	13.8/20.2	20.2/20.2	13.8/20.2	20.2/20.2	13.8/20.2	20.2/20.2
Unconstrained ¹	13.8/27.0	20.6/35.0	13.8/27.0	20.6/35.0	13.8/27.0	20.6/35.0	13.8/27.0	20.6/35.0
Main storage (V3R7) (MB)	32-96	64-96	32-96	64-96	N/A	N/A	N/A	N/A
Main storage (V4R1/R2/R3) (MB)	64-192	64-192	64-192	64-192	64-192	128-192	64-192	128-192
Disk storage (V3R7/V4R1) (GB)	4.19-16.77	4.19-16.77	4.19-16.77	4.19-16.77	4.19-16.77	4.19-16.77	4.19-16.77	4.19-16.77
Disk storage (V4R2/V4R3) (GB)	4.19-29.9	4.19-29.9	4.19-29.9	4.19-29.9	4.19-29.9	4.19-29.9	4.19-29.9	4.19-29.9
Maximum feature card slots ²	5	5	5	5	5	5	5	5
Communication lines	1-5	1-5	1-5	1-5	1-5	1-5	1-5 ³	1-5 ³
LAN IOAs	0-2	0-2	1-2	1-2	0-2	0-2	1-2	1-2
Integrated PC Server LANs (max)	2	2	2	2	2	2	2	2
MFIOP LANs (max)	1	1	1	1	1	1	1	1
Workstation controllers								
Twinaxial	1	1	0-1	0-1	1	1	0-1	0-1
ASCII	0	0	0	0	0	0	0	0
Workstations								
Twinax (V3R7, V4R1)	1-7	1-14	0-7	0-14	1-7	1-14	0-7	0-14
Twinax (V4R2/R3)	1-7	1-28	0-7	0-28	1-7	1-28	0-7	0-28
ASCII	0	0	0	0	0	0	0	0
¼-inch cartridge tape (2.5 GB)	1	1	1	1	1	1	1	1
½-inch reel tape	0	0	0	0	0	0	0	0
½-inch cartridge tape	0	0	0	0	0	0	0	0
8mm cartridge tape	0	0	0	0	0	0	0	0
Tape libraries	0	0	0	0	0	0	0	0
Optical libraries	0	0	0	0	0	0	0	0
Diskettes	0	0	0	0	0	0	0	0
Fax adapters	0	0	0	0	0	0	0	0
Cryptographic processors	0	0	0	0	0	0	0	0
System I/O buses	0	0	0	0	0	0	0	0

Note 1	<p>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.</p> <p>The constrained figures are for the 9401 Model 150 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 150. In ease case, the first figure is for interactive workload, and the second is for client/server.</p>
Note 2	Two of these slots are reserved for the Integrated PC Server. Three are driven by the MFIOP.
Note 3	Six lines are supported, but one is dedicated to Client Access Console.

Package	Twinax Entry #0291/#0391 #0591	Twinax Growth #0292/#0392 #0592	Server Entry #0293/#0393 #0593	Server Growth #0294/#0394 #0594
Minimum OS/400 release ⁴	V4R2/V4R3 V4R4	V4R2/V4R3 V4R4	V4R2/V4R3 V4R4	V4R2/V4R3 V4R4
Relative system performance (CPW)				
Constrained ¹	13.8/20.2	20.2/20.2	13.8/20.2	20.2/20.2
Unconstrained ¹	13.8/27.0	20.6/35.0	13.8/27.0	20.6/35.0
Main storage (MB)	64-192	128-192	64-192	128-192
Disk storage (GB)	4.19-29.9	4.19-29.9	4.19-29.9	4.19-29.9
Maximum feature card slots ^{2,3}	5	5	5	5
Communication lines ³	1-5	1-5	1-5 ³	1-5 ³
LAN IOAs	0-2	0-2	1-2	1-2
#2790 PCI Integrated Netfinity Server LANs (max)	0-2	0-2	0-2	1-2
MFIOP LANs (max)	1	1	1	1
Workstation controllers				
Twinaxial	1	1	0-1	0-1
ASCII	0	0	0	0
LocalTalk	0	0	0	0
Workstations				
Twinax	1-7	1-28	0-7	0-28
ASCII	0	0	0	0
LocalTalk	0	0	0	0
¼-inch cartridge tape (4.0 GB)	1	1	1	1
½-inch reel tape	0	0	0	0
½-inch cartridge tape	0	0	0	0
8mm cartridge tape	0	0	0	0
Tape libraries	0	0	0	0
Optical libraries	0	0	0	0
Diskettes	0	0	0	0
Fax adapters	0	0	0	0
Cryptographic processors	0	0	0	0
System I/O buses	0	0	0	0

Note 1	<p>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.</p> <p>The constrained figures are for the 9401 Model 150 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 150. In each case, the first figure is for interactive workload, and the second is for client/server.</p>
Note 2	Three are driven by the MFIOP. Two of these slots are reserved for the Integrated PC Server.
Note 3	Six lines are supported, but one is dedicated to Client Access Console (#029x Packages) or Operations Console (#039x and #059x packages).
Note 4	The #029x packages are shipped with V4R2. The #039x packages are shipped with V4R3. The #059x packages are shipped with V4R4.

7.2 9401 Model 150 system unit



7.3 AS/400e Model 150 features

All optional features for the Model 150 are customer installable (CSU) except processor upgrades.

POWER AND PACKAGING	
MFIOP	<p>Multifunction I/O Processor</p> <p>The MFIOP ships as standard (with no feature required) on all 9401 Model 150 packages. It supports these adapters:</p> <ul style="list-style-type: none"> Base Workstation/Comm Adapter Base Multi Protocol/Comm Adapter #2720 Base PCI WAN/Twinaxial IOA #2721 Multi Protocol Comm Adapter #9723/#2723 PCI Ethernet IOA #2724/#9724 PCI Token Ring IOA <p>The MFIOP supports one base adapter plus two feature adapters. If an Integrated PC Server or #2790 PCI Integrated Netfinity Server is installed, no LAN Adapter can be installed on the MFIOP.</p>
#0185	<p>Performance Enhancement</p> <p>The #0185 feature upgrades the 9401 Model 150 processor and increases the number of twinaxial workstations and printers supported from 7 to 14 with V4R1 and earlier. It can be ordered on packages #0181, #0183, #0191, or #0193 only.</p>
#0295	<p>Performance Enhancement/28 Workstations</p> <p>The #0295 feature upgrades the 9401 Model 150 processor and increases the number of twinaxial workstations and printers supported to 28. It can be ordered on packages #0181, #0183, #xx91, and #xx93 only. Minimum OS/400 level: V4R2</p>
#0399	<p>4-Port Twinaxial Expansion</p> <p>The #0399 feature consists of a 4-port twinaxial expansion cable and drop box. It is not allowed with packages #xx92 or with the #0295 performance enhancement feature.</p>
MAIN STORAGE	
#3110	<p>64 MB Main Storage</p> <p>Plugs directly onto the CPU.</p> <p>Maximum: One on #0182, #0184, #xx92, and #xx94. Two on #0181, #0183, #xx91, and #xx93 packages. If base memory on #018x packages is removed, three can be installed.</p> <p>Minimum OS/400 level: V4R1</p> <p>The #3110 is a Customer Install Feature (CIF) on a Model 150 for an MES that only includes CIF features.</p>

#3182	<p>32 MB Main Storage Plugs directly onto the CPU. Maximum: One on #0182, #0184, #xx92, and #xx94 packages. Two on #0181, #0183, #xx91, and #xx93 packages. The #3182 is a Customer Install Feature (CIF) on a Model 150 for an MES that only includes CIF features.</p>
WORKSTATION CONTROLLERS	
#0059	<p>Transition Data Link Offers a twinaxial data transfer between IBM systems.</p>
#2720	<p>#2720 Base PCI WAN/Twinaxial IOA The #2720 adapter combines a workstation controller and support of one communications line. Attaches to the MFIO. The #2720 is shipped as standard with no feature code required on #0181, #0182, #xx91, and #xx92 packages.</p> <p>A two port twinaxial attachment cable comes with the adapter that supports seven attached devices on #0181, #0183, #xx91, and #xx93 packages. Supports 14 attached devices when the preceding packages have #0185 installed or on #0182, #0184, #0192 and #0194 packages. A four-port twinaxial attachment cable comes with the adapter that supports 28 devices on #xx92, and #xx94 packages or if #0295 or #0399 has been ordered and V4R2 at minimum. Maximum: One The #2720 is a Customer Install Feature (CIF) on a Model 150 for an MES that only includes CIF features.</p>
COMMUNICATIONS	
#0032	<p>High Speed Modem Required for Electronic Customer Support.</p>
#2720	<p>#2720 Base PCI WAN/Twinaxial IOA The #2720 adapter combines a workstation controller and support of one communications line. Attaches to the MFIO.</p> <p>The #2720 is shipped as standard with no feature code required) on #0181, #0182, #xx91, and #xx92 packages. The #2720 is available as a feature on #0183, #0184, #xx93, and #xx94 packages.</p> <p>The #2720 provides one communication line. One of these cables must be specified: #0348 V.24/EIA232 20-ft. (6m) PCI cable #0350 V.24/EIA232 20-ft. (6m) Enhanced PCI cable #0353 V.35 20-ft. (6m) PCI cable #0356 V.36/EIA449 20-ft. (6m) PCI cable #0359 X.21 2-ft. (6m) PCI cable Maximum: One The #2720 is a Customer Install Feature (CIF) on a Model 150 for an MES that only includes CIF features.</p>
#2721	<p>Multiprotocol Comm Adapter Attaches to the MFIO. The #2721 provides one or two communications lines. The #2721 adapter ships as standard with no feature required on #0183, #0184, #xx93, and #xx94 packages. One or two cable features must be specified: #0348 V.24/EIA232 20-ft. (6m) PCI cable #0350 V.24/EIA232 20-ft. (6m) Enhanced PCI cable #0353 V.35 20-ft. (6m) PCI cable #0356 V.36/EIA449 20-ft. (6m) PCI cable #0359 X.21 20-ft. (6m) PCI cable One additional cable feature can be specified on #0181, #0182, #xx91, and #xx92 packages: #0367 Operations Console PCI Cable 20-ft. (6M) PCI (If #0367 is ordered then #0381 Remote Control Panel Cable may also be specified) #0362 Client Access Console 20-ft. (6M) PCI Cable Feature #0362 may be specified on packages #0181, #0182, #0191, #0192, #0291, #0292, #0391, and #0392. Feature #0362 is shipped as standard on #0183, #0184, #0193, and #0194. Feature #0367 may be specified on packages #0291, #0292, #0391, or #0392. Feature #0367 is shipped as standard on #0293, #0294, #0393, and #0394.</p> <p>One #0367 or #0362 may be specified per system for PC Console support. Minimum OS/400 to support #0367 and #0381: V4R3 The #2721 is a Customer Install Feature (CIF) on a Model 150 for an MES that only includes CIF features.</p>

#3182	<p>32 MB Main Storage Plugs directly onto the CPU. Maximum: One on #0182, #0184, #xx92, and #xx94 packages. Two on #0181, #0183, #xx91, and #xx93 packages. The #3182 is a Customer Install Feature (CIF) on a Model 150 for an MES that only includes CIF features.</p>
WORKSTATION CONTROLLERS	
#0059	<p>Transition Data Link Offers a twinaxial data transfer between IBM systems.</p>
#2720	<p>#2720 Base PCI WAN/Twinaxial IOA The #2720 adapter combines a workstation controller and support of one communications line. Attaches to the MFIO. The #2720 is shipped as standard with no feature code required on #0181, #0182, #xx91, and #xx92 packages.</p> <p>A two port twinaxial attachment cable comes with the adapter that supports seven attached devices on #0181, #0183, #xx91, and #xx93 packages. Supports 14 attached devices when the preceding packages have #0185 installed or on #0182, #0184, #0192 and #0194 packages. A four-port twinaxial attachment cable comes with the adapter that supports 28 devices on #xx92, and #xx94 packages or if #0295 or #0399 has been ordered and V4R2 at minimum. Maximum: One The #2720 is a Customer Install Feature (CIF) on a Model 150 for an MES that only includes CIF features.</p>
COMMUNICATIONS	
#0032	<p>High Speed Modem Required for Electronic Customer Support.</p>
#2720	<p>#2720 Base PCI WAN/Twinaxial IOA The #2720 adapter combines a workstation controller and support of one communications line. Attaches to the MFIO.</p> <p>The #2720 is shipped as standard with no feature code required) on #0181, #0182, #xx91, and #xx92 packages. The #2720 is available as a feature on #0183, #0184, #xx93, and #xx94 packages.</p> <p>The #2720 provides one communication line. One of these cables must be specified: #0348 V.24/EIA232 20-ft. (6m) PCI cable #0350 V.24/EIA232 20-ft. (6m) Enhanced PCI cable #0353 V.35 20-ft. (6m) PCI cable #0356 V.36/EIA449 20-ft. (6m) PCI cable #0359 X.21 2-ft. (6m) PCI cable Maximum: One The #2720 is a Customer Install Feature (CIF) on a Model 150 for an MES that only includes CIF features.</p>
#2721	<p>Multiprotocol Comm Adapter Attaches to the MFIO. The #2721 provides one or two communications lines. The #2721 adapter ships as standard with no feature required on #0183, #0184, #xx93, and #xx94 packages. One or two cable features must be specified: #0348 V.24/EIA232 20-ft. (6m) PCI cable #0350 V.24/EIA232 20-ft. (6m) Enhanced PCI cable #0353 V.35 20-ft. (6m) PCI cable #0356 V.36/EIA449 20-ft. (6m) PCI cable #0359 X.21 20-ft. (6m) PCI cable One additional cable feature can be specified on #0181, #0182, #xx91, and #xx92 packages: #0367 Operations Console PCI Cable 20-ft. (6M) PCI (If #0367 is ordered then #0381 Remote Control Panel Cable may also be specified) #0362 Client Access Console 20-ft. (6M) PCI Cable Feature #0362 may be specified on packages #0181, #0182, #0191, #0192, #0291, #0292, #0391, and #0392. Feature #0362 is shipped as standard on #0183, #0184, #0193, and #0194. Feature #0367 may be specified on packages #0291, #0292, #0391, or #0392. Feature #0367 is shipped as standard on #0293, #0294, #0393, and #0394.</p> <p>One #0367 or #0362 may be specified per system for PC Console support. Minimum OS/400 to support #0367 and #0381: V4R3 The #2721 is a Customer Install Feature (CIF) on a Model 150 for an MES that only includes CIF features.</p>

LANS	
#2723 #9723	<p>#2723 PCI Ethernet IOA IEEE 802.3</p> <p>The #2723 supports attachment to an Ethernet LAN. AUI and RJ45 wrap connectors and an RJ45 filter cable are included with a #2723 feature. A 3 meter AUI Ethernet Cable or RJ45 Cable must be separately ordered. No LAN can be attached to the MFIOP if an Integrated PC Server or #2790 PCI Integrated Netfinity Server is installed. The #9723 is the base PCI Ethernet IOA on packages #0183, #0184, #xx93, and #xx94.</p> <p>Maximum: Two</p> <p>Prerequisite: Unused slot on MFIOP, on the #2850, #2852, or #2868, or on Integrated PC Server or #2790 PCI Integrated Netfinity Server shipped with package #0184 or #xx94.</p> <p>The #2723 is a Customer Install Feature (CIF) on a Model 150 for an MES that only includes CIF features.</p>
#2724 #9724	<p>#2724 PCI 16/4 Mbps Token Ring IOA</p> <p>The #2724 supports attachment to a token ring LAN. AUI and RJ45 wrap connectors and a 2.4 meter token ring cable are included with a #2724 feature. If the customer chooses to use RJ45 cabling, this must be separately ordered. No LAN can be attached to the MFIOP if an Integrated PC Server or #2790 PCI Integrated Netfinity Server is installed. The #9724 is the base 16/4 Token Ring IOA on packages #0183, #0184, #xx93, #xx94.</p> <p>Maximum: Two</p> <p>Prerequisite: Unused slot on MFIOP, on #2850, #2852, or #2868, or on Integrated PC Server or Integrated Netfinity shipped with package #0184 or #xx94.</p> <p>The #2724 is a Customer Install Feature (CIF) on a Model 150 for an MES that only includes CIF features.</p>
#2838 #9738	<p>#2838 PCI 100/10 Mbps Ethernet IOA</p> <p>The #2838 provides attachment to standard 100 Mbps high-speed Ethernet LANs and allows attachment to existing 10 Mbps Ethernet LANs. The #9738 is the base 100/10 Mbps Ethernet IOA on packages #xx93, or #xx94. If #2738/#9738 PCI 100/10 Mbps Ethernet IOA is selected to run on a #2866 PCI Integrated Netfinity Server, then one #0222 100/10 Mbps Ethernet on IPCS/#2790 PCI Integrated Netfinity Server is required.</p> <p>The IOA is capable of operating in half or full duplex mode. The adapter comes with an RJ-45 connector for attachment to UTP-5 media. 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.</p> <p>Prerequisite: Unused slot on #2852 Integrated PC Server or #2868 Integrated Netfinity Server shipped with package #0184 or #xx94.</p> <p>Maximum: One</p> <p>Minimum OS/400 level: V4R2</p> <p>The #2838 is a Customer Install Feature (CIF) on a Model 150 for an MES that only includes CIF features.</p>
#2850	<p>#2850 Integrated PC Server</p> <p>The #2850 contains a 133 MHz Intel Pentium Processor, four main storage slots, and two LAN IOA slots for high performance serving to LAN attached PCs. The #2850 comes with 32 MB of main storage and supports up to three of these features, giving a maximum of 128 MB.</p> <ul style="list-style-type: none"> #2860 16 MB Integrated PC Server Memory #2861 32 MB Integrated PC Server Memory <p>Either one or two of these LAN IOAs are supported:</p> <ul style="list-style-type: none"> #9723/#2723 PCI Ethernet IOA #9724/#2724 PCI 16/4 Mbps Token Ring IOA <p>The #9723 or #9724 is the base LAN IOA on #0183, #0184, #0193, or #0194 packages. The #2850 ships as standard with #0184 and #0194 packages (with no feature required). The #2850 is available as an option on all other packages, except #0294 or #0394. The #2850 is not supported on #059x packages.</p> <p>Maximum: One</p> <p>The #2850 is a Customer Install Feature (CIF) on a Model 150 for an MES that only includes CIF features.</p>
#2852	<p>#2852 Integrated PC Server (PCI)</p> <p>The #2852 contains a 200 MHz Pentium Processor, four main storage slots, and two LAN IOA slots for high performance serving to LAN attached PCs. The #2852 comes with two 32 MB main storage cards as standard. Up to two of these additional main storage features may also be ordered. If the two base storage features are removed, four main storage features can be ordered giving a maximum of 512 MB.</p> <ul style="list-style-type: none"> #2861 32 MB Integrated PC Server Memory #2862 128 MB Integrated PC Server Memory <p>Either one or two of these LAN IOAs are supported:</p> <ul style="list-style-type: none"> #9723/#2723 PCI Ethernet IOA #9724/#2724 PCI 16/4 Mbps Token Ring IOA #2738/#9738 PCI 100/10 Mbps Ethernet IOA <p>The #9723, #9724, or #9738 is the base LAN on #xx93 or #xx94 packages. Only one of the LANs can be #2838/#9738. The #2852 also comes with a special cable that provides industry standard keyboard, mouse, serial, and parallel connections. If running Windows NT on the #2852, then:</p> <ul style="list-style-type: none"> #0325 Integrated PC Server Extension Cable for Windows NT is required. #1700 Integrated PC Server Keyboard or Mouse for Windows NT is the default in the U.S.A. <p>A display must be connected for Windows NT on the IPCS.</p>

#2852 (cont.)	<p>For other country-specific keyboard or mouse and display support, refer to the Web site at: http://www-1.ibm.com/servers/eserver/series/</p> <p>The #2852 ships as standard with #0294, or #0394 package (with no feature required). The #2852 is available as an option on all other packages, except #0184 and #0194.</p> <p>When running OS/2 on the #2852, then #0325 and #1700 are not allowed.</p> <p>When running Novell Netware on the #2852, then #0325 and #1700 are not allowed and a maximum of 256 MB IOP memory is supported.</p> <p>Maximum: One</p> <p>Minimum OS/400 level: V4R2</p> <p>The #2852 is a Customer Install Feature (CIF) on a Model 150 for an MES that only includes CIF features.</p>
#2868	<p>#2868 Integrated Netfinity Server</p> <p>The #2868 contains a 333 MHz Pentium Processor, four main storage slots, and two LAN IOA slots for high performance serving to LAN-attached PCs. Comes with 64 MB as base IOP memory. Two additional main storage slots can each contain one of these features, giving a maximum of 578 MB on initial order. However, base #2861s can be removed in the field and replaced by two of these memory features, bringing the maximum IOP memory to 1024 MB.</p> <p>#2861 32 MB Integrated PC Server Memory #2862 128 MB Integrated PC Server Memory #2867 256 MB Integrated PC Server Memory</p> <p>Up to two of these LAN IOAs are supported. At least one LAN IOA is required. A maximum of one LAN IOA can be a PCI 100/10 Mbps Ethernet IOA:</p> <p>#2723 PCI Ethernet IOA #2724 PCI 16/4 Mbps Token Ring IOA #2838 PCI 100/10 Mbps Ethernet IOA</p> <p>Only one of these base LAN IOAs is supported:</p> <p>#9723 PCI Ethernet IOA #9724 PCI Token Ring IOA #9738 PCI 100/10 Mbps Ethernet IOA</p> <p>The #2868 ships as standard with #0594 package (with no feature required). The #2868 is available as an option on all other packages.</p> <p>If running Windows NT on the #2868, then:</p> <p>#0325 Integrated PC Server Extension Cable for Windows NT is required. #1700 Integrated PC Server Keyboard or Mouse for Windows NT. Default in the U.S.A.</p> <p>A display is required to support Windows NT on the #2790 PCI Integrated Netfinity Server.</p> <p>For country-specific keyboard or mouse and display support, refer to the Web site at: http://www-1.ibm.com/servers/eserver/series/</p> <p>When running OS/2 on the #2868, then #0325 and #1700 are not allowed and a maximum of 512 MB IOP memory is supported.</p> <p>When running Novell Netware on the #2868, then #0325 and #1700 are not allowed and a maximum of 256 MB IOP memory is supported.</p> <p>Maximum: One.</p> <p>Minimum OS/400 level: V4R2 with CUM C8342420 or V4R3 with CUM C9349430 or later.</p> <p>The #2868 is a Customer Install Feature (CIF) on a Model 150 for an MES that only includes CIF features.</p>
DISK UNITS	
#6607	<p>#6607 4.19 GB Additional Two-byte Disk Unit</p> <p>All 9401 Model 150 packages come with one 4.19 GB disk as standard (with no feature required). Three #6607s may be added giving a maximum of four 4.19 GB disks.</p> <p>The #6607 is a Customer Install Feature (CIF) on a Model 150 for an MES that only includes CIF features.</p>
#6713	<p>#6713 8.58 GB Disk Unit (Two-Byte)</p> <p>Up to three #6713s may be added to all packages giving a maximum of 29.9 GB if the base 4.19 GB disk is included.</p> <p>Minimum OS/400 level: V4R2</p> <p>The #6713 is a Customer Install Feature (CIF) on a Model 150 for an MES that only includes CIF features.</p>
INTERNAL TAPE UNITS	
#6381	<p>#6381 2.5 GB ¼-inch Cartridge Tape</p> <p>The #6381 can be used for save/restore, alternate IPL, migration, and ¼-inch cartridge tape exchange using the appropriate media and density. Also supports the QIC-24 format used in S/36 ¼-inch units. This tape can be ordered to replace the 4.0 GB ¼-inch cartridge tape unit included as standard with all #029x packages if S/36 compatibility is required. A 2.5 GB ¼-inch cartridge tape unit ships as standard with all #018x and #019x packages with no feature required.</p> <p>The #6381 is a Customer Install Feature (CIF) on a Model 150 for an MES that only includes CIF features.</p>

#6382	<p>#6382 4 GB ¼-inch Cartridge Tape Unit</p> <p>The #6382 can be used for save/restore, alternate IPL, migration, and ¼-inch cartridge tape exchange using the appropriate media and density. This unit does not support QIC 24 format used in S/36 ¼-inch cartridge tape units. The #6382 is orderable on all #018x and #19x packages to replace the 2.5 GB ¼-inch cartridge tape unit that shipped as standard with those packages. A 4.0 GB ¼-inch cartridge tape unit ships as standard with all #029x or #039x packages with no feature required.</p> <p>The #6382 is a Customer Install Feature (CIF) on a Model 150 for an MES that only includes CIF features.</p>
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7.4 AS/400e Model 150 software

7.4.1 OS/400 V3R7

These pages show the AS/400e products that are most commonly ordered. It is not a definitive list of all the iSeries or AS/400e software products that are now available.

Product name	WDFM	Model 150 product identifier	AS/400 equivalent product identifier
Advanced Entry Model 150 BasePak V3R7	✓	5649-EP1	N/A
PSF/400 20-45 IPM Feature	✓	5649-SB1	5716-SS1 Feature
Enhanced Integration for Novell NetWare	✓	5649-SC1	5716-SS1 Feature
Enhanced Integration for Lotus Notes	✓	5649-SD1	5716-EPK
▶ DataPropagator			
▶ ADSTAR Distributed Storage (ADSM)			
▶ Lotus Notes			
Advanced Function Print Utility for AS/400	✓	5649-AF1	5716-AF1
Advanced DBCS Printer Support	✓	5649-AP1	5716-AP1
Integrated Language Environment COBOL for AS/400	✓	5649-CB1	5716-CB1
Point-of-Sale Communications Utility for AS/400	✓	5649-CF1	5716-CF1
Application Development ToolSet Client Server (ADTS C/S) for AS/400	✓	5649-CL3	5716-CL3
▶ CODE/400 for OS/2			
▶ VRPG for OS/2			
▶ CODE for Windows			
▶ VRPG for Windows			
Current PTF CUM Kit	✓	5649-CUM	N/A
Integrated Language Environment C for AS/400	✓	5649-CX2	5716-CX2
Language Dictionaries for AS/400	✓	5649-DCT	5716-DCT
Application Program Driver for AS/400	✓	5649-PD1	5716-PD1
Application Development ToolSet for AS/400	✓	5649-PW1	5716-PW1
Application Dictionary Services for OS/400	✓	5649-PWA	5716-PW1 Feature
Application Development Manager for OS/400	✓	5649-PWB	5716-PW1 Feature
Integrated Language Environment RPG for AS/400	✓	5649-RG1	5716-RG1
Report/Data Archive and Retrieval System for AS/400	✓	5649-RD1	5716-RD1
IBM Connection Program for OS/400 for UNIX Environments	✓	5649-TBE	5798-TBE
OfficeVision for AS/400	✓	5649-WP1	5716-WP1
Secondary Languages for 5649-XXX licensed programs	✓	5649-NLV	N/A
IBM Network Station Manager for AS/400	✓	5649-A07	5648-B07
IBM Network Station Browser	✓	5649-A08	5648-B08

Note 1	These products are available under IBM International Program License Agreement Terms, for use on 9401 Model 150 only.
Note 2	5649-EP1 BasePak is provided preloaded on 9401 Model 150 only. It comprises OS/400, Client Access, Query, SQL Development Kit, Facsimile Support, Performance Management, PSF Fax Support, PSF 1-19 ipm support, and TCP/IP Communication Utilities. Advanced Function Printing DBCS Fonts are preloaded onto all DBCS systems. No separate product identifier is required for these products. 5649-EP1 cannot be ordered separately.

7.4.2 OS/400 V4R1

These pages show the AS/400e software products that are most commonly ordered. It is not a definitive list of all the AS/400e or iSeries software products now available.

Product name	WDFM	Model 150 product identifier	AS/400 equivalent product identifier
Advanced Entry Model 150 BasePack V4R1	✓	5649-EP2	N/A
PSF/400 20-45 Printer Support	✓	5649-SB2	5769-SS1 Feature
PSF/400 46+ IBM Printer Support	✓	5649-SB3	5769-SS1 Feature
NetWare Enhanced Integration	✓	5649-SC2	5769-SS1 Feature
Enhanced Integration for Lotus Notes	✓	5649-SD1*	5769-EPK
▶ DataPropagator			
▶ ADSTAR Distributed Storage Manager (ADSM)			
▶ Lotus Notes			
Advanced Function Print Utility for AS/400	✓	5649-AF1*	5716-AF1
Advanced DBCS Printer Support	✓	5649-AP1*††	5716-AP1
Integrated Language Environment COBOL for AS/400	✓	5649-CB1*	5716-CB1
Point-of-Sale Communications Utility for AS/400	✓	5649-CF1*	5716-CF1
Application Development ToolSet/Client Server	✓	5649-CL3*	5716-CL3
▶ CODE/400 for OS/2			
▶ VRPG for OS/2			
▶ CODE for Windows			
▶ VRPG for Windows			
Current PTF CUM Kit	✓	5649-CU1	N/A
Integrated Language Environment C for AS/400	✓	5649-CX2*	5716-CX2
Language Dictionaries for AS/400	✓	5649-DCT*	5716-DCT
Firewall for AS/400	✓	5649-FW1	5769-FW1
Internet Connection Secure Server for AS/400†	✓	5649-NC1†	5769-NC1
Internet Connection Secure Server for AS/400	✓	5649-NCE	5769-NCE
Secondary Languages for 5649 Licensed Programs	✓	5649-NL2	N/A
Application Program Driver for AS/400	✓	5649-PD1*	5716-PD1
Performance Tools for AS/400	✓	5649-PT1@	5716-PT1
Application Development ToolSet for AS/400	✓	5649-PW1*	5716-PW1
Application Dictionary Services for OS/400	✓	5649-PWA*	5716-PW1 Feature
Application Development Manager for OS/400	✓	5649-PWB*	5716-PW1 Feature
Report/Data Archive and Retrieval System for AS/400	✓	5649-RD1*	5716-RD1
Integrated Language Environment RPG for AS/400	✓	5649-RG1*	5716-RG1
IBM Connection Program for OS/400 for UNIX Environments	✓	5649-TBE*	5798-TBE
	✓	5649-TBW@	5798-TBW
Wireless Connection for AS/400	✓	5649-WP2	5769-WP1
OfficeVision for AS/400	✓	5649-XY1	5769-XY1
AS/400 Client Access Family	✓	5649-XZ1	5769-XZ1
OS/2 Warp Server for AS/400	✓		
IBM Network Station Manager for AS/400	✓	5649-A07*	5648-B07
IBM Network Station Browser	✓	5649-A08*	5648-B08
Navio NC Navigator for IBM Network Station (40 bit encryption)	✓	5648-B10	5648-B10
Navio NC Navigator for IBM Network Station (128 bit encryption)†	✓	5648-B20†	5648-B20†
IBM Network Station Browser (128 bit encryption)†	✓	5648-B18	5648-B18
IBM AFP FONT Collection for IBM Operating Systems	✓	5648-113	5648-113

Note 1	These products are available under IBM International Program License Agreement terms, for use on 9401 Model 150 only.
Note 2	"*****" in any column indicates that data was not available at time this edition was printed.
Note 3	† These products are available in the U.S.A. and Canada only.
Note 4	†† This product is available in Asia Pacific countries or regions only.

Note 5	5649-EP2 BasePak V4R1 is provided preloaded on 9401 Model 150 only. It comprises OS/400, Client Access Family for Windows, Query, SQL Development Kit, Facsimile support, Performance Manager, and a selection of OS/400 features (PSF Fax Support, PSF 1-19 ipm Printer Support, CPA Tool Kit, Integration Services for IPCS, Integration for Novell Network, Integration for Lotus Notes and TCP/IP Connectivity Utilities). No separate product indefinites are required for these products. Advanced Function Printing DBCS Fonts are preloaded onto all DBCS systems. 5649-EP2 BasePak V4R1 may be ordered as an upgrade to existing 9401 Model 150 systems using V3R7.
Note 6	* These V3R7 products are available for use on V4R1 systems (as skip ship).
Note 7	@ These products are new with V4R1, but also run on V3R7.

7.4.3 OS/400 V4R2

These pages show those AS/400e software products most commonly ordered. It is not a definitive list of all the AS/400e or iSeries software products now available.

Product name	WDFM	Model 150 product identifier	AS/400 equivalent product identifier
Advanced Entry Model 150 BasePack V4R2	✓	5649-EP3	N/A
PSF/400 20-45 Printer Support	✓	5649-SB4	5769-SS1 Feature
PSF/400 46+ IBM Printer Support	✓	5649-SB5	5769-SS1 Feature
NetWare Enhanced Integration	✓	5649-SC3	5769-SS1 Feature
Advanced Function Print Utility for AS/400	✓	5649-AF2	5769-AF1
Advanced DBCS Printer Support	✓	5649-AP2††	5769-AP1
Integrated Language Environment COBOL for AS/400	✓	5649-CB2	5769-CB1
Point-of-Sale Communications Utility for AS/400	✓	5649-CF2	5769-CF1
Application Development ToolSet/Client Server	✓	5649-CL4	5769-CL3
▶ CODE/400 for OS/2			
▶ VRPG for OS/2			
▶ CODE for Windows			
▶ VRPG for Windows			
Current PTF CUM Kit	✓	5649-CU2	N/A
Integrated Language Environment C for AS/400	✓	5649-CX3	5769-CX2
Language Dictionaries for AS/400	✓	5649-DCT*	5716-DCT
Firewall for AS/400	✓	5649-FW2	5769-FW1
Internet Connection Secure Server for AS/400†	✓	5649-NC4	5769-NC1
Internet Connection Secure Server for AS/400	✓	5649-NCF	5769-NCE
Secondary Languages for 5649 Licensed Programs	✓	5649-NL3	N/A
Application Program Driver for AS/400	✓	5649-PD2	5769-PD1
Performance Tools for AS/400	✓	5649-PT2	5769-PT1
Application Development ToolSet for AS/400	✓	5649-PW2	5769-PW1
Application Dictionary Services for OS/400	✓	5649-PWC	5769-PW1 Feature
Application Development Manager for OS/400	✓	5649-PWD	5769-PW1 Feature
OnDemand for AS/400	✓	5649-RD2	5769-RD1
Integrated Language Environment RPG for AS/400	✓	5649-RG2	5769-RG1
Wireless Connection for AS/400	✓	5649-TBX	5798-TBW
OfficeVision for AS/400	✓	5649-WP3	5769-WP1
AS/400 Client Access Family	✓	5649-XY1*	5769-XY1
OS/2 Warp Server for AS/400	✓	5649-XZ1*	5769-XZ1
IBM Network Station Manager for AS/400	✓	5648-B07	5648-B07
Navio NC Navigator for IBM Network Station (40-bit encryption)	✓	5648-B10*	5648-B10
Navio NC Navigator for IBM Network Station (128-bit encryption)†	✓	5648-B20†*	5648-B20†
IBM AFP Font Collection for IBM Operating Systems	✓	5648-113*	5648-113

Note 1	These products are available under IBM International Program License Agreement terms, for use on 9401 Model 150 only.
Note 2	† These products are available in the U.S.A. and Canada only.
Note 3	† † This product is available in Asia Pacific countries or regions only.
Note 4	5649-EP3 BasePak V4R2 is provided preloaded on 9401 Model 150 only. It comprises OS/400 Client Access Family for Windows, Query, SQL Development Kit, Facsimile support, Performance Manager, and a selection of OS/400 features (PSF Fax support, PSF 1-19 ipm Printer Support, CPA Tool Kit, Integration Services for IPCS, Integration for Novell Netware, Integration for Lotus Notes and TCP/IP Connectivity Utilities). In addition, V4R2 also includes support for Lotus Domino, support for Java application development, TCP/IP enhancements, enhanced facsimile, and enablement for AS/400 integration for Windows NT Server. No separate product identifiers are required for these products. Advanced Function Printing DBCS Fonts are preloaded onto all DBCS systems.
Note 5	* These prior release products are available for use on V4R2 systems (skip ship).

7.4.4 OS/400 V4R3

Note that these pages show the AS/400e software products that are most commonly ordered. It is not a definitive list of all the AS/400e or iSeries software products that are now available.

Product name	WDFM	Model 150 product identifier	AS/400 equivalent product identifier
Advanced Entry Model 150 BasePak V4R3	✓	5649-EP4	N/A
PSF/400 20-45 Printer Support	✓	5649-SB6	5769-SS1 Feature
PSF/400 46+ IBM Printer Support	✓	5649-SB7	5769-SS1 Feature
NetWare Enhanced Integration	✓	5649-SC4	5769-SS1 Feature
Cryptographic Access Provider 40-bit for AS/400	✓	5649-AC1	5769-AC1
Cryptographic Access Provider 56-bit for AS/400	✓	5649-AC2	5769-AC2
Cryptographic Access Provider 128-bit for AS/400	✓	5649-AC3+	5769-AC3+
Advanced Function Print Utility for AS/400	✓	5649-AF2	5769-AF1
Advanced DBCS Printer Support	✓	5649-AP2††	5769-AP1
Integrated Language Environment COBOL for AS/400	✓	5649-CB2	5769-CB1
Point-of-Sale Communications Utility for AS/400	✓	5649-CF2	5769-CF1
Application Development ToolSet/Client Server	✓	5649-CL4	5769-CL3
▶ CODE/400 for OS/2			
▶ VRPG for OS/2			
▶ CODE for Windows			
▶ VRPG for Windows			
Current PTF CUM Kit	✓	5649-CU3	N/A
Integrated Language Environment C for AS/400	✓	5649-CX4	5769-CX2
Language Dictionaries for AS/400	✓	5649-DCT*	5716-DCT
Firewall for AS/400	✓	5649-FW3	5769-FW1
Secondary Languages for 5649 Licensed Programs	✓	5649-NL4	N/A
Application Program Driver for AS/400	✓	5649-PD3	5769-PD1
Performance Tools for AS/400	✓	5649-PT2*	5769-PT1
Application Development ToolSet for AS/400	✓	5649-PW2*	5769-PW1
Application Dictionary Services for OS/400	✓	5649-PWC*	5769-PW1 Feature
Application Development Manager for OS/400	✓	5649-PWD*	5769-PW1 Feature
OnDemand for AS/400	✓	5649-RD3	5769-RD1
Integrated Language Environment RPG for AS/400	✓	5649-RG2*	5769-RG1
Wireless Connection for AS/400	✓	5649-TBX*	5798-TBW
OfficeVision for AS/400	✓	5649-WP3*	5769-WP1
AS/400 Client Access Family	✓	5649-XY1*	5769-XY1
OS/2 Warp Server for AS/400	✓	5649-XZ1*	5769-XZ1
IBM Network Station Manager for AS/400	✓	5648-C05	5648-C05
Navio NC Navigator for IBM Network Station (128-bit encryption)†	✓	5648-C20†	5648-C20†
IBM AFP Font Collection for IBM Operating Systems	✓	5648-113*	5648-113

Note 1	These products are available under IBM International Program License Agreement terms, for use on 9401 Model 150 only.
Note 2	† These products are available in the U.S.A. and Canada only.
Note 3	† † This product is available in Asia Pacific countries or regions only.
Note 4	5649-EP4 BasePak V4R3 is provided preloaded on 9401 Model 150 only. It comprises OS/400 Client Access Family for Windows, Query, SQL Development Kit, Facsimile support, Performance Manager and a selection of OS/400 features (PSF Fax support, PSF 1-19 ipm Printer Support, CPA Tool Kit, Integration Services for IPCS, Integration for Novell Network, Integration for Lotus Notes and TCP/IP Connectivity Utilities). In addition, V4R3 also includes support for Lotus Domino, support for Java application development, TCP/IP enhancements, enhanced facsimile, and enablement for AS/400 integration for Windows NT Server. No separate product identifiers are required for these products. Advanced Function Printing DBCS Fonts are preloaded onto all DBCS systems. 5649-EP4 BasePak V4R3 may be ordered as an upgrade to existing 9401 Model 150 systems using OS/400 V3R7 or V4R1.
Note 5	* These prior release products are available for use on V4R3 systems (skip ship). That is to say, if you already have licenses for them, you do not need to reorder them.

7.4.5 OS/400 V4R4

These pages show the AS/400e software products that are most commonly ordered. It is not a definitive list of all the iSeries or AS/400e software products that are now available.

Product name	WDFM	Model 150 product identifier	OS/400 equivalent product identifier
Advanced Entry Model 150 BasePack V4R3	✓	5649-EP5	N/A
PSF/400 20-45 Printer Support	✓	5649-SB8	5769-SS1 Feature
PSF/400 46+ IBM Printer Support	✓	5649-SB9	5769-SS1 Feature
NetWare Enhanced Integration	✓	5649-SC5	5769-SS1 Feature
Cryptographic Access Provider 40-bit for AS/400	✓	5649-AC4	5769-AC1
Cryptographic Access Provider 56-bit for AS/400	✓	5649-AC5	5769-AC2
Cryptographic Access Provider 128-bit for AS/400	✓	5649-AC6 †	5769-AC3 †
Advanced Function Print Utility for AS/400	✓	5649-AF3	5769-AF1
Advanced DBCS Printer Support	✓	5649-AP3††	5769-AP1
Integrated Language Environment COBOL for AS/400	✓	5649-CB3	5769-CB1
AS/400 Client Encryption (40-bit)	✓		
AS/400 Client Encryption (56-bit)	✓	5649-CE1	5769-CE1
AS/400 Client Encryption (128-bit)	✓	5649-CE2	5769-CE2
Point-of-Sale Communications Utility for AS/400	✓	5649-CE3 †	5769-CE3 †
Application Development ToolSet/Client Server	✓	5649-CF3	5769-CF1
<ul style="list-style-type: none"> ▶ CODE/400 for OS/2 ▶ VRPG for OS/2 ▶ CODE for Windows ▶ VRPG for Windows 		5649-CL5	5769-CL3
Current PTF CUM Kit	✓	5649-CU4	N/A
Integrated Language Environment C for AS/400	✓	5649-CX5	5769-CX2
Language Dictionaries for AS/400	✓	5649-DCT*	5716-DCT
Firewall for AS/400	✓	5649-FW4	5769-FW1
Secondary Languages for 5649 Licensed Programs	✓	5649-NL5	N/A
Application Program Driver for AS/400	✓	5649-PD3*	5769-PD1
Performance Tools for AS/400	✓	5649-PT3	5769-PT1
Application Development ToolSet for AS/400	✓	5649-PW3	5769-PW1
Application Dictionary Services for OS/400	✓	5649-PWE	5769-PW1 Feature
Application Development Manager for OS/400	✓	5649-PWF	5769-PW1 Feature
OnDemand for AS/400	✓	5649-RD4	5769-RD1
Integrated Language Environment RPG for AS/400	✓	5649-RG3	5769-RG1
Wireless Connection for AS/400	✓	5649-TBZ	5798-TBW
OfficeVision for AS/400	✓	5649-WP3*	5769-WP1
AS/400 Client Access Family	✓	5649-XY1*	5769-XY1
OS/2 Warp Server for AS/400	✓	5649-XZ1*	5769-XZ1
IBM Network Station Manager for AS/400	✓	5648-C05	5648-C05
Navio NC Navigator for IBM Network Station (128 bit encryption)†	✓	5648-C20†	5648-C20†
IBM AFP Font Collection for IBM Operating Systems	✓	5648-113*	5648-113

Note 1	These products are available under IBM International Program License Agreement terms, for use on 9401 Model 150 only.
Note 2	† These products are available in the U.S.A. and Canada only.
Note 3	† † This product is available in Asia Pacific countries or regions only.
Note 4	5649-EP5 BasePak V4R4 is provided preloaded on 9401 Model 150 only. It is comprised of OS/400 Client Access Family for Windows, Query, SQL Development Kit, Facsimile support, Performance Manager and a selection of OS/400 features (PSF Fax support, PSF 1-19 ipm Printer Support, CPA Tool Kit, Integration Services for IPCS, Integration for Novell Netware, Integration for Lotus Notes and TCP/IP Connectivity Utilities). In addition, V4R4 also includes support for Lotus Domino, support for Java application development, TCP/IP enhancements, enhanced facsimile, and enablement for AS/400e integration for Windows NT Server. No separate product identifiers are required for these products. Advanced Function Printing DBCS Fonts are preloaded onto all DBCS systems. 5649-EP5 BasePak V4R4 may be ordered as an upgrade to existing 9401 Model 150 systems using OS/400 V3R7, V4R1, V4R2 or V4R3.
Note 5	* These prior release products are available for use on V4R4 systems (skip ship). If you already have licenses for them, you do not need to reorder them.