



# IBM System i model 525 offers new levels of price performance

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## At a glance

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System i model 525 Express Configurations feature:

- i5/OS licensing by user, consistent with industry-accepted terms and concepts
- Affordable entry price
- Design for both traditional and new business solutions

### For ordering, contact:

Your IBM representative, an IBM Business Partner, or the Americas Call Centers at

**800-IBM-CALL** Reference: YE001

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## Overview

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The System i™ model 525 focuses on small- to medium-sized business needs. This 1/2-way system, with full POWER5+™ performance and i5/OS™ Licensing by User, redefines the cost to acquire a System i solution.

If you need to support 40 or more concurrent i5/OS<sup>1</sup> users and require greater systems scalability and partitioning capability than the model 515, the model 525 offers an attractive entry point. It includes the options you value all wrapped up in an easy-to-install, manageable system that provides the performance and reliability you expect from IBM.

Features and benefits include:

- Capable of running i5/OS, Linux™, and AIX 5L™ applications on a single system and integrating IBM xSeries® servers running Windows™
- 1/2-way system with a 1.9 GHz POWER5+ processor
- Two system configuration options, Express and Capacity BackUp (CBU), to fit your system requirements
- Support for 30 to unlimited concurrent i5/OS users with a P10 software tier
- Customizable to your specific order
- Security and virus resistance to help ensure your system's availability

<sup>1</sup>

An i5/OS user is a person who accesses the program via one or more connections, exchanging credentials (form of user identification) directly with the program or indirectly through application or middleware software supported by the program. You must acquire entitlement for the maximum number of i5/OS users simultaneously authenticated on the machine

(concurrent i5/OS users).

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## Key prerequisites

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i5/OS V5R4

### Planned availability date

April 20, 2007

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## Description

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Earlier model 520 systems provided unlimited i5/OS user license entitlements but offered a range of systems with small-to-large amounts of computing capacity (batch and 5250 CPW). A growing number of small- to mid-size clients requested larger amounts of computing capacity for a wider range of applications. The new i5/OS Licensing by User offered with the model 525 gives you added flexibility. If you have a relatively modest number of system users, you may find the model 525 to be a good match for your business. For example, the 1/2-way 9406-525 with one processor activation offers a 3x CPW rating compared to the 1-way 9406-520 1200 CPW Enterprise Edition. The model 525 software tier is P10 versus the model 520 1/2-way P20 software tier.

In addition to an i5/OS processor license entitlement, the model 525 includes license entitlements for 30 to unlimited concurrent i5/OS users in blocks of 10 users. Also, if you have a large number of "external" i5/OS users (clients, vendors, or business partners) and a more modest number of "internal" i5/OS users (company employees or equivalent), a special external unlimited user entitlement is available.

The model 525 offers several Capacity on Demand options that make it possible to activate additional processor resource. Capacity Upgrade on Demand, On/Off Capacity on Demand, Reserve Capacity on Demand, and Trial Capacity on Demand are available.

To take advantage of Capacity on Demand, you need to permanently activate only one of the two processors. Then, as needed, a key activates the On/Off Capacity on Demand option in order to satisfy capacity needs associated with business growth or peaks.

Using Capacity on Demand options and per processor granularity for i5/OS licensing and software maintenance, you can efficiently allocate resource for your applications, regardless of your operating environment.

The model 525 does not have an upgrade path to a larger model such as the 550 or 570; however, upgrades into the model 525 from the model 520 or 810 are available. These upgrade paths are essentially the same as the upgrade paths into the 520 1/2-way.

Each 525 system is built to your specific order and can be customized for your exact hardware placement and IBM software preload. The model 525 offers an integrated set of hardware, including two 1 Gbps Ethernet LAN ports and a disk, tape, or DVD drive controller in the base. It is available as either a desktower configuration or as a rack-mount configuration. As a rack-mount configuration, it can be placed in a 19-inch rack and requires 4 EIA units or 4U.

The model 525 is a 1/2-way system that uses a 1.9 GHz POWER5+ processor with L3 cache. It delivers 3800 or 7100 CPW (batch or 5250). The model 525 has a maximum of 32 GB of memory, 278 disk drives, and 90 PCI slots.

### Model 525 configurations overview

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The minimum functional system consists of the base system unit, base features, and selected priced features. It supports a large selection of I/O including a variety of LAN and WAN adapters, an iSCSI adapter, SCSI tape and disk controllers, Fibre Channel adapters, twinax workstation controllers, multiple I/O drawers/towers, and more.

Each model 525 system unit has:

- Maximum of 32 GB of memory
- Eight memory slots
- Six PCI-X slots
- Eight disk slots (four optionally enabled)

- One half-high slot for removable media
- Two slimline slots for DVD drives
- Two 1 Gbps/100 Mbps/10 Mbps Ethernet LAN ports
- Two SPCN ports
- Two serial ports
- Two HMC ports
- Two USB ports
- Disk/DVD/tape controller

i5/OS V5R4 supports the use of all of the preceding hardware elements except one slimline slot, two serial ports, and two USB ports. These components are reserved for other operating systems running on the model 525.

Neither the integrated controller nor the integrated Ethernet adapter, which drives the two Ethernet LAN ports, uses any of the six PCI-X slots. You can add 40 MB write cache to the integrated disk controller for a disk performance boost and to enable RAID-5 capability and still require no PCI-X slot. An IOP or ECS WAN adapter can be included as part of the edition definition. Each uses one of the six PCI-X slots.

The model 525 system unit supports hot-plug disk slots, hot-plug PCI-X slots, and redundant hot-plug cooling fans. An optional redundant hot-plug power supply is available.

Order the model 525 as a 9406-525. It comes with a one-year hardware warranty with 24 x 7 and same-business-day service.

The model 525 system unit can be greatly expanded using I/O expansion towers/drawers that include additional PCI slots and disk slots. Up to six I/O towers/drawers can be attached via a high speed link (HSL) loop. In addition, Integrated xSeries Adapters can be located on the HSL loop, providing IBM System x integration.

### **Summary of System i 525 configurations**

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Server feature	0909
Processor group	P10
Processor (1.9 GHz)	8330x1 (1/2-way)
Processor CPW	3800/7100
5250 OLTP	3800/7100
Main storage (minimum)	1 GB
(maximum)	32 GB
Disk storage (minimum)	35 GB
(maximum)	39 TB
Disk arms (maximum)	278
Internal CD/DVD/tape (maximum)	14
External tape/optical/CD/DVD (maximum)	36
Physical packaging (maximum)	
I/O towers/drawers	6
PCI card slots	90
Twinnaxial devices (maximum)	1920
Communication lines (maximum)	192
LAN lines (maximum)	36
Windows integration	
Integrated xSeries Servers	18
Integrated xSeries Adapters	8

**Note:** Some maximums and combinations of devices may be subject to configuration restrictions.

**Main storage consideration:** The model 525 uses DDR2 memory DIMMs that are plugged in pairs. Each 525 DDR2 memory feature represents one pair of DIMMs. A model 525 requires a minimum of one and a maximum of four memory features.

### System i<sup>™</sup> 525 configurations

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The 9406 model 525 is offered as an Express Configuration or as a Capacity BackUp (CBU) Configuration.

Three Express Configurations consist of 30, 150, or an unlimited number of concurrent i5/OS user entitlements. You can add i5/OS user entitlements to the 30 or 150 entitlement Express Configurations.

A CBU Configuration includes a financially attractive model 525 when you purchase a second system for backup, high availability, and disaster recovery. The CBU Configuration includes 30 concurrent i5/OS user entitlements with the option to add more.

A CBU system delivers the capacity for role-swap operations — where the CBU system maintains application availability when a production system is down for planned or unplanned outages. You can activate a standby processor using On/Off Capacity on Demand, at no additional charge, in case of a disaster that takes down the primary system. "Disaster" is defined as an event recoverable from an offsite location only that has resulted from the unforeseen loss of a production system's computing capability due solely to forces beyond your control. To qualify as a disaster, the outage must be one that clearly, by its nature, requires a remote recovery operation. This means that the primary data center is no longer usable and the outage is not due to a hardware or software failure.

Before IBM ships a new CBU Configuration system, you must register a primary system in the same enterprise at the System i CBU Edition Web site. The primary system must be a model 525 or a model 520. The model 520 primary system cannot be an Express Configuration, Value Edition, High Availability Edition, or Telephony Edition. If you purchase a model 525 CBU to be paired with a model 520 primary machine, you may purchase additional i5/OS users and an unlimited option at a reduced price. After the initial acquisition of the 525 CBU, additional i5/OS users and the unlimited option are at normal prices.

You can purchase On/Off Capacity on Demand for temporary standby processor activation for the 525 as needed. However, high usage of On/Off Capacity on Demand outside a disaster can be costly. Permanent processor activations should be considered for ongoing requirements.

If you have permanently activated the second processor of the 525 CBU system and you do not already have an i5/OS processor license entitlement for that processor, you can temporarily transfer the second i5/OS processor entitlement from a primary 1/2-way 525, 2-way 520, or 1/2-way 520 to the 525 CBU system. This can be done if the primary system or application on the primary system goes down and the second i5/OS processor entitlement is not being used on the primary system.

Similarly, if you have i5/OS user license entitlements that are not being used because the 525 primary system or application on the 525 primary system goes down, you can temporarily transfer user entitlements from the primary 525 to the CBU 525. The i5/OS user entitlements that can be transferred are above and beyond the minimum 30 base i5/OS users included with any 525 Express Configuration. User license entitlements cannot be transferred from a primary 520 system to a 525 CBU system.

The 525 CBU Configuration includes an opportunity for an initial test of the switch-over environment. Three processor days are credited to your account. These processor days are provided at no additional charge with the On/Off Capacity on Demand function that can be used for the standby processor.

Upgrades are available for the model 525 CBU Configuration from smaller model 520 CBU Editions.

For CBU Configuration registration and additional information on the CBU Edition, visit

<http://www.ibm.com/systems/i/hardware/cbu>

For more information on edition content, including specific ordering details and IBM configuration implementation, visit

**Model 525 Express Configuration 1 (#7790):**

**Function**

- Support for multiple operating systems (i5/OS, AIX 5L, and Linux)
- Support for 5250 OLTP (up to maximum CPW)
- Support for Capacity on Demand

**Software**

- Licensing for i5/OS (one processor license)
- Licensing for 30 concurrent i5/OS users (5722-SSC)
- iSeries™ Access (5722-XW1) unlimited users
- IBM Director for iSeries (5722-DR1)
- IBM Web Enablement (5722-WE2)

**Hardware**

- 1/2-way system with one processor activation
- One WAN IOA

**Model 525 Express Configuration 2 (#7791):**

**Function**

- Support for multiple operating systems (i5/OS, AIX 5L, and Linux)
- Support for 5250 OLTP (up to maximum CPW)
- Support for Capacity on Demand

**Software**

- Licensing for i5/OS (one processor license)
- Licensing for 150 concurrent i5/OS users (5722-SSC)
- iSeries Access (5722-XW1) unlimited users
- IBM Director for iSeries (5722-DR1)
- IBM Web Enablement (5722-WE2)

**Hardware**

- 1/2-way system with one processor activation
- One WAN IOA

**Model 525 Express Configuration 3 (#7792):**

**Function**

- Support for multiple operating systems (i5/OS, AIX 5L, and Linux)
- Support for 5250 OLTP (up to maximum CPW)
- Support for Capacity on Demand

**Software**

- Licensing for i5/OS (one processor license)

- Licensing for unlimited concurrent i5/OS users (5722-SSC)
- iSeries Access (5722-XW1) unlimited users
- IBM Director for iSeries (5722-DR1)
- IBM Web Enablement (5722-WE2)

#### **Hardware**

- 1/2-way system with one processor activation
- One WAN IOA

#### **Model 525 CBU Configuration 1 (#6910):**

##### **Function**

- Support for multiple operating systems (i5/OS, AIX 5L, and Linux)
- Support for 5250 OLTP (up to maximum CPW)
- Support for Capacity on Demand

##### **Software**

- Licensing for i5/OS (one processor license)
- Licensing for 30 concurrent i5/OS users (5722-SSC)
- iSeries Access (5722-XW1) unlimited users
- IBM Director for iSeries (5722-DR1)
- IBM Web Enablement (5722-WE2)

##### **Hardware**

- 1/2-way system with one processor activation
- One WAN IOA

#### **Accessibility by people with disabilities**

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You can request a U.S. Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance at

[http://www-3.ibm.com/able/product\\_accessibility/index.html](http://www-3.ibm.com/able/product_accessibility/index.html)

#### **Section 508 of the U.S. Rehabilitation Act**

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IBM System i models are capable, when used in accordance with IBM's associated documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it.

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## **Product positioning**

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The model 525 hardware is physically identical to the 1.9 GHz 1/2-way model 520. The memory maximum, I/O maximums, available I/O features, and Capacity on Demand capabilities are the same. All 525 systems have full 5250 OLTP capability and do not use Enterprise Enablement features.

The model 525 Express Configurations have the same upgrade paths from the 810/520 as the 1/2-way 520 Enterprise Edition. Upgrades into the 525 CBU Configuration from model 520 CBU editions are supported. Upgrades from model 810 to a 525 CBU configuration are not available. The software tier of the model 525 is P10, compared to the model 520 software tier of P10 and the 520 1/2-way software tier of P20.

The primary difference between the model 525 and the model 520 1/2-way is the licensing of i5/OS user entitlements. The model 525 includes i5/OS entitlements for a minimum of 30

concurrent i5/OS users and can be increased up to an unlimited user entitlement. Unlimited external user licensing is another chargeable feature, providing additional flexibility. The model 520 licensing has an unlimited number of i5/OS users.

The model 525 has significantly greater configuration options than the model 515.

- Provides licensing options for more than 40 concurrent i5/OS users
- Supports larger maximums of memory, disk, and other I/O
- Supports more types of I/O options
- Offers Capacity on Demand processor abilities

### **Business Partner information**

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If you are a Direct Reseller - System Reseller acquiring products from IBM, you may link directly to Business Partner information for this announcement. A PartnerWorld ID and password are required (use IBM ID).

BP Attachment for Announcement Letter 107-182

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=107-182>

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## **Discretionary information**

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### **Feature availability matrix**

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Order codes:

- I — Available on initial orders from the plant only
- M — Available on field upgrade (MES) orders only
- B — Available on both initial and field upgrade orders
- S — Supported for migration only and cannot be ordered

For a complete list of features by model, refer to the System i™ online Sales Manuals at

<http://www-306.ibm.com/common/ssi/OIX.wss>

	9	
	4	
	0	
	6	
	5	
	2	
	5	
Feature		Description
0002	M	Customer Install MES
0003	M	Notify CSO After Install

0005 M Bulk Order Indicator  
 0006 I LPAR Restrict Build Process  
 0032 B Modem  
 0040 B Mirrored System Disk Level  
 0041 B Device Parity Protection-All  
 0042 B Mirrored System IOP Level  
 0043 B Mirrored System Bus Level  
 0047 B Device Parity RAID-6 All  
 0092 B External xSeries(R) Attach  
 0123 S #5074 Lower Unit in Rack  
 0140 B Logical Partitioning Specify  
 0141 B HSL OptiConnect Specify  
 0142 B Linux™ Partition Specify  
 0145 B AIX(R) Partition Specify  
 0162 B Extended Single Ended Attach  
 0163 B Fibre Channel Attach  
 0164 S Differential Attach  
 0165 B VHDCI Attachment  
 0205 I RISC-to-RISC Data Migration  
 0223 B 100Mbps Token-Ring Specify  
 0224 M 100/10Mbps Ethernet Specify  
 0225 M 1Gbps Ethernet Specify  
 0226 B 1Gbps Ethernet Specify  
 0272 I Renovated by IBM  
 0275 B CSC Specify  
 0276 B CSC Specify  
 0277 B CSC Specify  
 0278 B CSC Specify  
 0279 B CSC Specify  
 0280 B CSC Specify  
 0281 B CSC Specify  
 0282 B CSC Specify  
 0290 B Ext Tape Attached via #5736  
 0296 B Custom Data Protection  
 0299 M MES Conversion Analysis  
 0300 B EXP24 Attach via #5736/#5775  
 0301 B EXP24 Attach via #5737/#5776  
 0308 B Mirrored System-IOA Level  
 0310 B EXP24 Attach via #5739/#5778  
 0325 S IPCS Extension Cables for NT  
 0348 B V.24/EIA232 20-Ft PCI Cable  
 0349 S V.24/EIA232 50-Ft PCI Cable  
 0353 B V.35 20-Ft PCI Cable  
 0354 S V.35 50-Ft PCI Cable  
 0356 B V.36 20-Ft PCI Cable  
 0359 B X.21 20-Ft PCI Cable  
 0360 S X.21 50-Ft PCI Cable  
 0365 S V.24/EIA232 80-Ft PCI Cable  
 0367 B Operations Console PCI Cable  
 0371 B LC-SC Adapter Kit (50um)  
 0372 B LC-SC Adapter Kit (62.5um)  
 0373 I UPS Factory Integration  
 0374 I HMC Factory Integration  
 0375 I Display Factory Integration  
 0376 B Reserve Rack Space -- UPS  
 0377 B Reserve Rack Space -- HMC  
 0378 B Reserve Rack Space -- Display  
 0424 I Int Order-NDF Parts Allowed  
 0446 B 512MB DDR Server Memory  
 0447 B 1GB DDR Server Memory  
 0454 I LPAR Partition Init  
 0455 I LPAR Software Preload  
 0456 I Customer Placement  
 0469 I Custom Rack Placement  
 0473 B Project Identify Code  
 0474 B Project Identify Code  
 0476 B Project Identify Code  
 0477 B Project Identify Code  
 0478 B Project Identify Code  
 0479 B Project Identify Code  
 0496 I Force i5/OS(TM) Preload  
 0532 B V5R4 OS, V5R4MO Machine Code  
 0551 B iSeries(TM) Rack  
 0553 B iSeries 2.0m Rack



0554 B iSeries 11U Rack  
 0555 B iSeries 25U Rack  
 0574 S #5074 Equivalent  
 0588 S PCI-X Expansion Unit in Rack  
 0595 B PCI-X Tower Unit in Rack  
 0599 B Rack Filler Panel Kit  
 0600 B CCEP  
 0601 S Direct Attach-2743  
 0602 S Direct Attach-2760  
 0603 S Direct Attach-2744  
 0607 S Direct Attach-4838  
 0608 S Direct Attach-4745  
 0609 S Direct Attach-2772  
 0610 S Direct Attach-2773  
 0611 S Direct Attach-2765  
 0612 S Direct Attach-2766  
 0613 B Direct Attach-2742  
 0614 B Direct Attach-2793  
 0615 B Direct Attach-2794  
 0616 B Direct Attach-2805  
 0617 B Direct Attach-2806  
 0620 B Direct Attach-5700  
 0621 B Direct Attach-5701  
 0623 S Direct Attach-2849  
 0624 S Direct Attach-5702  
 0625 S Direct Attach-5704  
 0626 S Direct Attach-2787  
 0627 B Direct Attach-2780  
 0628 S Direct Attach-5703  
 0629 B 4Gbps Fibre Channel (1-Port)  
 0630 B PCI-X 1Gbps iSCSI TOE-Copper  
 0631 B PCI-X 1Gbps iSCSI TOE-Optic  
 0632 B PCI USB 2.0 Adapter  
 0633 B Graphics Adapter  
 0634 S 128-port ASYNC Adapter  
 0635 S SDLC/X.25 -- 2-port Adapter  
 0642 S PCI Ultra-3 RAID Adapter  
 0645 S Direct Attach-5712  
 0646 S Direct Attach-5716  
 0647 B PCI-X Disk/Tape Ctlr No IOP  
 0648 B PCI-X Disk Ctlr-90MB No IOP  
 0694 B #5094 Equivalent  
 0696 B #5096 Equivalent  
 0705 S Forced #2749 Placement  
 0707 S Forced #2768 Placement  
 0708 B Forced #5702/#5712 Placement  
 0828 S #4317 Load Source Specify  
 0829 S #4318 Load Source Specify  
 0830 B #4319 Load Source Specify  
 0834 B #4326 Load Source Specify  
 0835 B #4327 Load Source Specify  
 0836 B #4328 Load Source Specify  
 0837 B SAN Load Source Specify  
 0909 B 1/2W Serv Feat 525 1x8330  
 0983 I Assembled in USA  
 1019 B Modem Cable -- Australia  
 1020 B Modem Cable -- HK/NZ  
 1025 B Modem Cable -- US/Canada  
 1266 S 35.16GB 15k rpm Disk Unit  
 1267 B 70.56GB 15k rpm Disk Unit  
 1268 B 141.12GB 15k rpm Disk Unit  
 1293 S 36.4GB 10k rpm Disk Unit  
 1294 S 73.4GB 10k rpm Disk Unit  
 1295 S 146.8GB 10k rpm Disk Unit  
 1296 S 36.4GB 15k rpm Disk Unit  
 1297 B 73.4GB 15k rpm Disk Unit  
 1298 B 146.8GB 15k rpm Disk Unit  
 1299 B 300GB 10k rpm Disk Unit  
 1307 B 1.75m HSL-2 Cable  
 1308 B 2.5m HSL-2 Cable  
 1311 M System Unique Identifier  
 1395 B 4.3m 200V/10A Pwr Cd China  
 1396 B 4.3m 200V/16A Pwr Cd China  
 1406 B 200V 16A 14-Ft TL Line Cord

1409 S 4.3m 200V/16A Pwr Cd AU/NZ  
1410 B 200V 6-Ft Line Cord  
1411 B 200V 14-Ft Line Cord  
1412 B 125V 6-Ft Line Cord  
1413 S 125V 14-Ft Line Cord  
1414 B 200V 6-Ft Locking Line Cord  
1415 B 200V 6-Ft Wrtght Line Cord  
1417 S 200V 14-Ft Wrtght Line Cord  
1418 B 4.3m 200V/16A Pwr Cd S Afric  
1420 B 4.3m 200V/16A Pwr Cd EU/Asia  
1421 B 4.3m 200V/16A Pwr Cd CH/DK  
1422 B 3m IEC 320 C13/14 PDU Cord  
1425 S 200V 6-Ft Wrtght Line Cord  
1426 S 200V 14-Ft Locking Line Cord  
1427 S 200V 14-Ft Wrtght Line Cord  
1438 S 4.3m 200V/10A Pwr Cd AU/NZ  
1439 B 4.3m 200V/10A Pwr Cd EU/Asia  
1441 B 4.3m 200V/10A Pwr Cd S Afric  
1443 B 4.3m 200V/10A Pwr Cd UK  
1446 S 4.3m 200V/30A Pwr Cd Korea  
1447 S 4.3m 200V/30A Pwr Cd AU  
1448 S 4.3m 200V/30A Pwr Cd NZ  
1449 S 4.3m 200V/32A Pwr Cd EU 1-PH  
1451 B 200V 6-Ft Line Cord  
1452 B 200V 14-Ft Line Cord  
1453 B 200V 6-Ft Locking Line Cord  
1454 B 200V 12A 14-Ft TL Line Cord  
1455 B 200V 6-Ft Wrtght Line Cord  
1456 B 200V 14-Ft Wrtght Line Cord  
1457 B 200V 6-Ft Upper Line Cord  
1458 B 200V 6-Ft Upper Locking Cord  
1459 B 200V 6-Ft Upper Wrtght Cord  
1460 B 3m Copper HSL Cable  
1461 B 6m Copper HSL Cable  
1462 B 15m Copper HSL Cable  
1463 S 2m SPCN Cable  
1464 S 6m SPCN Cable  
1465 S 15m SPCN Cable  
1466 S 30m SPCN Cable  
1474 B 6m HSL to HSL-2 Cable  
1475 B 10m HSL to HSL-2 Cable  
1476 B 4.3m 200V/12A Pwr Cd UK  
1481 B 1.2m HSL-2 Cable  
1482 B 3.5m HSL-2 Cable  
1483 B 10m HSL-2 Cable  
1485 B 15m HSL-2 Cable  
1487 B 3m HSL to HSL-2 Cable  
1700 S IPCS Keyboard/Mouse for NT  
1827 B Serial-UPS Conversion Cable  
1850 S VHDCI to P Converter Cable  
1851 S 0.6m SCSI P-P Cable  
1852 S 2.5m SCSI P-P Cable  
1855 S 4-port EIA 232 Cable  
1860 B ASYNC Terminal/Prt Cable  
1870 S USB Keyboard-Dutch  
1871 S USB Keybd-Bulgarian  
1872 S USB Keyboard-Portuguese  
1873 B Dwr to Dwr Serial Cable  
1874 B Rack to Rack Serial Cable  
1875 B Serial Port Converter Cable  
1876 S L200P Flat Panel Monitor  
1889 S 80GB VXA-2 Tape Drive  
1893 S 36.4GB 10k rpm Disk Unit  
1894 S 73.4GB 10k rpm Disk Unit  
1895 S 146.8GB 10k rpm Disk Unit  
1896 S 36.4GB 15k rpm Disk Unit  
1897 B 73.4GB 15k rpm Disk Unit  
1898 B 146.8GB Disk Unit  
2114 S Ext Diff SCSI y-Cable  
2124 B 1m SCSI Cable  
2125 B 3m SCSI Cable  
2126 B 5m SCSI Cable  
2127 B 10m SCSI Cable  
2128 B 20m SCSI Cable

2138 B 0.55m SCSI Cable  
 2591 B Ext 1.44GB Diskette Drive  
 2640 B DVD-ROM  
 2742 B PCI Two-Line WAN IOA  
 2743 S PCI 1Gbps Ethernet IOA  
 2744 S PCI 100Mbps Token-Ring IOA  
 2749 S PCI Ultra Mag Media Ctlr  
 2757 S PCI-X Ultra RAID Disk Ctrl  
 2760 S PCI 1Gbps Ethernet UTP IOA  
 2763 S PCI RAID Disk Unit Ctlr  
 2765 S PCI Fibre Channel Tape Ctlr  
 2766 S PCI Fibre Channel Disk Ctlr  
 2772 S PCI Dual WAN/Modem IOA  
 2773 S PCI Dual WAN/Modem IOA(ANSI)  
 2780 B PCI-X Ultra4 RAID Disk Ctrl  
 2782 S PCI-X RAID Disk Unit Ctlr  
 2787 S PCI-X Fibre Chan Disk Ctlr  
 2793 B PCI 2-Line WAN w/Modem  
 2794 B PCI 2-Line WAN w/Modem (CIM)  
 2805 B PCI Quad Modem IOA  
 2806 B PCI Quad Modem IOA (CIM)  
 2843 S PCI IOP  
 2844 B PCI IOP  
 2847 B PCI IOP for SAN Load Source  
 2848 S PCI 2D Entry Graphics Adptr  
 2849 S PCI 100/10Mbps Ethernet IOA  
 2863 S 4-Port X.21 Cable  
 2864 S 4-Port V.35 DTE Cable  
 2877 B 4-Position Int Bus Cable  
 2887 M HSL-2 Bus Adapter  
 2888 B HSL-2/RI0-G Ports -- 2 Copper  
 2890 S PCI Integ Netfinity(R) Server  
 2891 S PCI Integ xSeries Server  
 2892 S PCI Integ xSeries Server  
 2895 S 128MB Server Memory  
 2896 S 256MB Server Memory  
 2897 S 1GB Server Memory  
 2899 S PCI Integ xSeries Server  
 2905 B Vietnamese  
 2906 B Lao  
 2917 B English U/L DBCS  
 2930 B Japanese Kanji  
 2934 B ASYNC Terminal/Prt Cable  
 2936 B ASYNC Modem Cable  
 2943 B 8-Port ASYNC Adapter  
 2947 S PCI Multiprotocol Adapter  
 2951 S V.24/EIA 232 Cable  
 2952 S V.35 Cable  
 2953 S V.36 Cable  
 2954 S X.21 Cable  
 2958 B Universal Japanese  
 2962 B Traditional Chinese  
 2969 B Korean  
 2972 B Thai  
 2998 B Chinese (PRC)  
 3578 S 300GB 10K rpm Disk Unit  
 3637 S T541H/L150P TFT Color Monitor  
 3638 S C220P 21" Color Monitor  
 3639 S L180P TFT 17" Color Display  
 3640 S L171P TFT 17" Black Display  
 3641 S T115 TFT 15" Color Display  
 3643 B T120 TFT 20" Color Display  
 3644 B T119 TFT 19" Color Display  
 3645 B T117 TFT 17" Color Display  
 4242 B 6-Ft Ext Cable for Display  
 4256 B Extender Cable for Keybd  
 4263 B Direct Attach Tape Cables  
 4270 S Ctlr to External Port Cable  
 4317 S 8.58GB 10k rpm Disk Unit  
 4318 S 17.54GB 10k rpm Disk Unit  
 4319 S 35.16GB 10k rpm Disk Unit  
 4326 S 35.16GB 15k rpm Disk Unit  
 4327 B 70.56GB 15k rpm Disk Unit  
 4328 B 141.12GB 15k rpm Disk Unit

4353 S 8-Position H.100 Bus Cable  
4400 B 1GB DDR2 Main Storage  
4425 S CD-ROM  
4430 S DVD-RAM  
4474 B 2GB DDR2 Main Storage  
4475 B 4GB DDR2 Main Storage  
4477 B 8GB DDR2 Main Storage  
4482 S 4GB 1/4-Inch Cartridge Tape  
4483 S 16GB 1/4-Inch Cartridge Tape  
4486 S 25GB 1/4-Inch Cartridge Tape  
4487 S 50GB 1/4-Inch Cartridge Tape  
4625 S CD-ROM  
4630 S DVD-RAM  
4631 S DVD-ROM  
4633 B DVD-RAM  
4682 S 4GB 1/4-Inch Cartridge Tape  
4683 S 16GB 1/4-Inch Cartridge Tape  
4684 S 30GB 1/4-Inch Cartridge Tape  
4685 S 80GB VXA-2 Tape Drive  
4686 S 25GB 1/4-Inch Cartridge Tape  
4687 B 50GB 1/4-Inch Cartridge Tape  
4688 S 160GB VXA-320 Tape Drive  
4690 S Rack Status Beacon Assembly  
4691 S Rack Status Beacon Cable  
4692 S Junction Box Cable  
4693 S Rack Beacon Junct Box Cable  
4723 S PCI 10Mbps Ethernet IOA  
4745 S PCI Two-Line WAN IOA  
4746 B PCI Twinaxial Workstn IOA  
4748 S PCI RAID Disk Unit Ctlr  
4778 S PCI RAID Disk Unit Ctlr  
4801 S PCI Crypto Coprocessor  
4805 S PCI Crypto Accelerator  
4806 B PCI-X Crypto Coprocessor  
4810 S PCI Integ xSeries Server  
4811 B PCI Integ xSeries Server  
4812 B PCI Integ xSeries Server  
4813 B PCI Integ xSeries Server  
4838 S PCI 100/10Mbps Ethernet IOA  
4959 S PCI 16/4Mbps Token-Ring IOA  
4962 S PCI 100/10Mbps Ethernet IOA  
5000 I Software Preload Required  
5001 B Customer Solution Center  
5002 I AS/400(R) CDSC -- Rochester Mfg  
5048 I FC Order Japan  
5074 S PCI Expansion Tower  
5079 S 1.8m I/O Tower  
5088 S PCI-X Expansion Unit  
5094 B PCI-X Expansion Tower  
5095 B PCI-X Expansion Tower  
5096 B PCI-X Exp Tower (no disk)  
5101 S 30-Disk Expansion Feature  
5105 M Dual Line Cords -- I/O Tower  
5106 M Dual Line Cords -- 5079 Tower  
5108 B 30-Disk Expansion Feature  
5111 S 30-Disk Exp w/Dual Line Cord  
5115 B Dual Line Cords -- Tower  
5116 B Dual Line Cords -- 5294 Tower  
5138 B Redundant Power and Cooling  
5158 B 850W AC Power Supply  
5159 B 850 Watt Power Supply  
5160 S Power Dist Unit 1 Phase NEMA  
5161 S Power Dist Unit 1 Phase IEC  
5294 B 1.8m I/O Tower  
5296 B 1.8m I/O Tower (no disk)  
5540 B Sys Console on Twinax WSC  
5544 B Sys Console on OP Console  
5546 S Sys Console 100Mbps Tkn-Rng  
5548 M Sys Console 100Mbps Ethernet  
5550 B Sys Console On HMC  
5553 B Sys Console-Ethernet No IOP  
5554 S Mirror 35GB Disk/Ctlr Pkg  
5555 B Mirror 70GB Disk/Ctlr Pkg  
5556 B Mirror 141GB Disk/Ctlr Pkg

5560 S Mirror 35GB Drawer Package  
5561 S Mirror 70GB Drawer Package  
5562 S Mirror 35GB Tower Package  
5563 S Mirror 70GB Tower Package  
5570 B 5727 Cache + 2 70GB Disk Pkg  
5571 B 5727 Cache + 6 70GB Disk Pkg  
5580 S 2780 Ctlr w/Aux Write Cache  
5581 S 2757 Ctlr w/Aux Write Cache  
5582 B #5738 Ctlr w/Aux Write Cache  
5583 B #5777 Ctlr w/Aux Write Cache  
5590 B #2780 Ctlr w/Aux Write Cache  
5591 S #2757 Ctlr w/Aux Write Cache  
5700 B PCI 1Gbps Ethernet IOA  
5701 B PCI 1Gbps Ethernet UTP IOA  
5702 S PCI-X Ultra Tape Controller  
5703 S PCI-X RAID Disk Unit Ctlr  
5704 S PCI-X Fibre Chan Tape Ctlr  
5706 B PCI-X 1Gbps Ethernet-TX IOA  
5707 B PCI-X 1Gbps Ethernet-SX IOA  
5709 S RAID Enabler Card  
5712 S PCI-X Tape Controller  
5713 S PCI-X 1Gbps iSCSI TOE-Copper  
5714 S PCI-X 1Gbps iSCSI TOE-Optic  
5715 S PCI-X Tape/DASD Controller  
5718 S 10Gbps Ethernet IOA (Short)  
5719 S 10Gbps Ethernet IOA (Long)  
5721 B PCI-X 10Gbps Ethernet-SR IOA  
5722 B PCI-X 10Gbps Ethernet-LR IOA  
5723 B 2-Port Async EIA-232 PCI IOA  
5727 B Integrated Cache - 40MB  
5736 B PCI-X Disk/Tape Ctlr w/IOP  
5737 B PCI-X Disk Ctlr-90MB w/IOP  
5738 B PCI-X Disk Ctlr-1.5GB w/IOP  
5739 B PCI-X EXP24 Ctlr-1.5GB w/IOP  
5740 B 1Gbps BaseT Ethernet (4-Port)  
5741 B EXP24 6 Disk Slot Enabler  
5742 B EXP24 6/12 Disk Slot Enabler  
5751 B DVD-RAM  
5753 B 30GB 1/4-Inch Cartridge Tape  
5754 B 50GB 1/4-Inch Cartridge Tape  
5755 B 200GB LTO-2 Tape Unit  
5758 S 4Gbps Fibre Channel (1-Port)  
5759 B 4Gbps Fibre Channel (2-Port)  
5760 B PCI-X Fibre Chan Disk Ctlr  
5761 B PCI-X Fibre Chan Tape Ctlr  
5775 B PCI-X Disk/Tape Ctlr-No IOP  
5776 B PCI-X Disk Ctlr-90MB No IOP  
5777 B PCI-X Disk Ctlr-1.5GB No IOP  
5778 B PCI-X EXP24 Ctl-1.5GB No IOP  
5781 B PCI-X EXP24 Ctlr-1.5GB w/IOP  
5782 B PCI-X EXP24 Ctl-1.5GB No IOP  
5783 B PCI-X iSCSI HBA Copper  
5784 B PCI-X iSCSI HBA Fiber  
5786 B Total Storage(R) EXP24 Disk Dwr  
5787 B Total Storage EXP24 Disk Twr  
5790 B PCI Expansion Drawer  
5799 B PCI-X EXP24 Ctlr-1.5GB w/IOP  
5800 B PCI-X EXP24 Ctl-1.5GB No IOP  
5951 B USB Keyboard-US English  
5952 B USB Keyboard-French  
5953 B USB Keyboard-Italian  
5954 B USB Keyboard-German/Austrian  
5955 B USB Keyboard-UK English  
5956 B USB Keyboard-Spanish  
5957 B USB Keybd-Japanese  
5958 B USB Keybd-Brazil/Portuguese  
5959 B USB Keybd-Hungarian  
5960 B USB Keybd-Korean  
5961 B USB Keybd-Chinese/US  
5962 B USB Keybd-French/Canadian  
5963 B USB Keyboard-Canadian/French  
5964 B USB Keyboard-Belgium/UK  
5965 B USB Keyboard-Swedish/Finnish  
5966 B USB Keyboard-Danish

5967 B USB Keybd- Bulgarian  
5968 B USB Keyboard- Swiss/Fr/German  
5969 B USB Keyboard- Norwegian  
5970 B USB Keyboard- Dutch  
5971 B USB Keyboard- Portuguese  
5972 B USB Keybd- Greek  
5973 B USB Keybd- Hebrew  
5974 B USB Keybd- Polish  
5975 B USB Keybd- Slovakian  
5976 B USB Keybd- Czech  
5977 B USB Keybd- Turkish  
5978 B USB Keyboard- LA Spanish  
5979 B USB Keybd- Arabic  
5980 B USB Keybd- Thailand  
5981 B USB Keybd- Russian  
5982 B USB Keybd- Russian  
5983 B USB Keybd- US English Euro  
6001 B SPCN Power Cable -- 2m  
6006 B SPCN Power Cable -- 3m  
6007 B SPCN Power Cable -- 15m  
6008 B SPCN Power Cable -- 6m  
6029 B SPCN Power Cable -- 30m  
6068 B Opt Front Door for 1.8m Rack  
6069 B Opt Front Door for 2.0m Rack  
6134 S 60GB 8mm Tape Unit  
6204 S Differential SCSI Adapter  
6246 B 1.8m Rack Trim Kit  
6247 B 2.0m Rack Trim Kit  
6248 B 1.8m Rack Acoustic Doors  
6249 B 2.0m Rack Acoustic Doors  
6258 B 36GB 4mm Tape Unit  
6279 S 160GB VXA-320 Tape Drive  
6312 B Quad Digital Trunk Adapter  
6417 M HSL-2/RIO-G Bus Adapter  
6452 B 14-Ft 250V/10A Power Cord  
6454 B 14-Ft 250V/10A Power Cord  
6455 B 14-Ft 250V/10A Power Cord  
6456 B 14-Ft 200-240V/12A Pwr Cord  
6458 B 14-Ft Int 250V/10A Pwr Cd  
6459 B 12-Ft 250V/10A RA Pwr Cd  
6460 B 14-Ft 125V/15A Power Cord  
6461 B 14-Ft 250V/10A Power Cord  
6463 B 14-Ft 250V/10A Power Cord  
6466 B 14-Ft 250V/10A Power Cord  
6468 S 14-Ft 250V/10A Power Cord  
6469 B 14-Ft 250V/15A Power Cord  
6470 B 6-Ft 125V/15A Power Cord  
6472 B 9-Ft 250V/16A Power Cord  
6474 B 9-Ft 250V/13A Power Cord  
6477 B 9-Ft 250V/10A Power Cord  
6479 S 9-Ft 250V/10A Power Cord  
6487 B 6-Ft 250V/15A Power Cord  
6489 B 14-Ft 3PH/24A Power Cord  
6491 B 14-Ft 1PH/48A Pwr Cord  
6492 B 14-Ft 1PH/48-60A Pwr Cord  
6493 B 9-Ft 250V/10A Power Cord  
6494 B 9-Ft 250V/10A Power Cord  
6496 B 9-Ft 250V/10A Power Cord  
6497 B 6-Ft 250V/15A Power Cord  
6498 B 6-Ft 250V/15A Power Cord  
6574 B 4-Disk Slot Exp -- Base Ctlr  
6580 B Optional Rack Security Kit  
6584 S 4-Disk Slot Exp -- PCI-X Ctlr  
6585 B DASD Locking Kit  
6586 B Modem Tray for 19-Inch Rack  
6587 B Rear Cover  
6594 B 4-Disk Slot Exp-PCI-X Ctlr  
6598 B Disk Slot Filler (Qty 4)  
6651 B 9-Ft 127V/15A Power Cord  
6654 B 14-Ft 1PH/24-30A Pwr Cord  
6655 B 14-Ft 1PH/24-30A WR Pwr Cord  
6656 B 14-Ft 1PH/24A Power Cord  
6657 B 14-Ft 1PH/24A Power Cord  
6658 B 14-Ft 1PH/24A Pwr Cd-Korea

6659 B 9-Ft 240V/15A Power Cord  
6660 B 14-Ft 127V/15A Power Cord  
6662 B 14-Ft 240V/15A Power Cord  
6663 B 14-Ft 240V/15A Power Cord  
6669 B 14-Ft 240V/15A Power Cord  
6670 B 6-Ft 125V/15A Power Cord  
6671 B 9Ft IEC 320 C13/14 PDU Cord  
6672 B 5Ft IEC 320 C13/14 PDU Cord  
6680 B 9-Ft 250V/10A Power Cord  
6681 B 14-Ft 200-240V/10A Pwr Cord  
6687 B 6-Ft 250V/15A Power Cord  
6691 B 14-Ft 200-240V/12A Pwr Cord  
6692 B 14-Ft 200-240V/10A Pwr Cord  
6800 B PCI 1Gbps Ethernet IOA  
6801 B PCI 1Gbps Ethernet UTP IOA  
6803 B PCI WAN for ECS  
6804 B PCI WAN for ECS (CIM)  
6910 B 525 CBU Configuration 1  
7180 B Acoustic Front Door  
7181 B Easy-Access Front Cover  
7182 B Rack Mount  
7188 B Power Distribution Unit  
7198 B Adjustable Depth Rack Rails  
7307 B Dual I/O Unit Enclosure  
7311 S Dual I/O Unit Enclosure  
7320 B One Processor Activation  
7501 S Quantity 150 of #4317  
7502 S Quantity 150 of #4318  
7504 S Quantity 150 of #4319  
7508 S Quantity 150 of #4326  
7509 B Quantity 150 of #4327  
7510 B Quantity 150 of #4328  
7520 S Quantity 150 of #1266  
7521 B Quantity 150 of #1267  
7522 B Quantity 150 of #1268  
7525 S Quantity 150 of #1294  
7526 S Quantity 150 of #1295  
7527 S Quantity 150 of #1296  
7528 B Quantity 150 of #1297  
7529 B Quantity 150 of #1298  
7620 M On/Off Proc Enablement  
7621 M On/Off Proc Day Billing  
7622 B Reserve Capacity Prepaid  
7780 B 2.0m Rack Side Attach Kit  
7790 B 525 Express Configuration 1  
7791 B 525 Express Configuration 2  
7792 B 525 Express Configuration 3  
7801 B 6m HMC Attachment Cable  
7802 B 15m HMC Attachment Cable  
7840 B Side-by-Side for 1.8m Racks  
7841 B Ruggedize Rack Kit  
7862 M Blind Swap Cassette (Long)  
7863 B Blind Swap Cassette (Double)  
7885 B Deskside  
7940 B Adv Power Virtualization  
8131 S 15-Ft Cluster Box Cable  
8132 S 9-Inch Cluster Box Cable  
8133 B RJ45 to DB25 Interposer  
8136 S Remote ASYNC Node (Rack)  
8137 S Remote ASYNC Node  
8244 S PCI WS Audio Adapter  
8330 B 1.9GHz Proc 0/2-Way  
8410 B Base Proc Activation  
8546 B Opt Base 1GB Server Memory  
8800 S USB Keyboard- US English  
8801 S USB Keyboard- French  
8802 S USB Keyboard- Italian  
8803 S USB Keyboard- German/Austrian  
8804 S USB Keyboard- UK English  
8805 S USB Keyboard- Spanish  
8806 S USB Keybd- Japanese  
8807 S USB Keybd- Brazil/Portuguese  
8808 S USB Keyboard- Canadian/French  
8810 S USB Keyboard- Belgium/Dutch

8811	S	USB Keyboard- Swedi sh/Fi nni sh
8812	S	USB Keyboard- Dani sh
8814	S	USB Keyboard- Swi ss/Fr/German
8816	S	USB Keyboard- Norwegi an
8819	S	USB Keybd- Greek
8820	S	USB Keybd- Hebrew
8821	S	USB Keybd- Hungari an
8823	S	USB Keybd- Pol i sh
8825	S	USB Keybd- Sl ovaki an
8826	S	USB Keybd- Czech
8827	S	USB Keybd- Turki sh
8829	S	USB Keyboard- LA Spani sh
8830	S	USB Keybd- Arabi c
8833	S	USB Keybd- Korean
8834	S	USB Keybd- Chi nese/US
8835	S	USB Keybd- French/Canadi an
8836	S	USB Keybd- Thai land
8838	S	USB Keybd- Russi an
8839	S	USB Keybd- Yugosl avi an/Lati n
8840	S	USB Keybd- US Engli sh
8841	B	USB Mouse and Keybd Cabl e
9004	B	Southern Hemi sphere Di spl ay
9493	I	Base PCI WAN for ECS
9494	I	Base PCI WAN for ECS (CIM)
9517	B	Base HSL- 2/RI O- G Bus Adapter
9531	B	Base HSL- 2 Bus Adapter
9691	S	Base Bus Adapter
9726	B	Base 512MB Server Memory
9744	B	Base PCI IOP
9771	S	Base PCI 2- Li ne WAN w/Modem
9793	B	Base PCI 2- Li ne WAN w/Modem
9794	B	Base PCI 2- Li ne WAN w/Modem
9844	B	Base PCI IOP
9877	B	Base HSL- 2 Bus Adapter

## Feature descriptions

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Following are the descriptions, in numeric order, for all new features in this announcement.

Attributes, as defined in the descriptions, state the interaction of requirements among features.

Minimums and maximums are the absolute limits for a single feature without regard to interaction with other features. The maximum valid quantity for MES orders may be different than for initial orders. The maximums in the following list refer to the largest quantity of these two possibilities.

The order type defines whether a feature is orderable only on initial orders, only on MES orders, on both initial and MES orders, or if a feature is supported on a model only as a result of a model conversion.

**(#0909) — 1/2W Serv Feat 525 1x8330:** #0909 is a server feature for the model 525 with a #8330 processor feature code.

- For 9406-525: (#0909)
  - Minimum required: 1
  - Maximum allowed: 1 (Initial order maximum: 1)
  - OS level required: i5/OS V5R4, or later
  - Initial Order/MES/Both/Supported: Both
  - CSU: Yes

**(#5570) — 5727 Cache + 2 70GB Disk Pkg:** This package provides one #5727 Integrated Cache — 40MB and two #4327 15k rpm 70.56GB Disk Units.

#5727 provides 40MB write cache for the imbedded disk controller in the 515, 520, 525 and also enables RAID-5 capability. The 5727 is installed in its own specific internal slot of the system unit and does not require a PCI slot.

On IBM ordering, shipping, and inventory documentation, the component features specifically for the #5727 and #4327 disk units will not be shown. The chargeable #5570 feature number will be shown and will carry the price and warranty for this package.



- Attributes provided: 40MB write cache, RAID-5 data protection for system unit disk drives, and two 70GB disk drives
- Attributes required: Unused write cache slot in the system unit and two unused disk slots.
- For 9406-525: (#5570)
  - Minimum required: 0
  - Maximum allowed: 1 (Initial order maximum: 1)
  - OS level required: i5/OS V5R4, or later
  - Initial Order/MES/Both/Supported: Both
  - CSU: Yes

**(#5571) — 5727 Cache + 6 70GB Disk Pkg:** This package provides one #5727 Integrated Cache — 40MB and six #4327 15k rpm 70.56GB Disk Units.

The #5727 provides 40MB write cache for the imbedded disk controller in the 515, 520, 525 and also enables RAID-5 capability. The 5727 is installed in its own specific internal slot of the system unit and does not require a PCI slot.

On IBM ordering, shipping, and inventory documentation, the component features specifically for the #5727 and #4327 disk units will not be shown. The chargeable #5570 feature number will be shown and will carry the price and warranty for this package.

- Attributes provided: 40MB write cache, RAID-5 data protection for system unit disk drives, and six 70GB disk drives
- Attributes required: Unused write cache slot in the system unit and two unused disk slots. The model 515 has 5592/5593 as a prerequisite.
- For 9406-525: (#5571)
  - Minimum required: 0
  - Maximum allowed: 1 (Initial order maximum: 1)
  - OS level required: i5/OS V5R4, or later
  - Initial Order/MES/Both/Supported: Both
  - CSU: Yes

**(#6910) — 525 CBU Configuration 1:** #6910 provides an edition feature designating a Capacity BackUp Configuration for a model 525 with processor feature #8330 and server feature #0909.

- Attributes provided: Model 525 Capacity BackUp Solution Configuration
- For 9406-525: (#6910)
  - Minimum required: 0
  - Maximum allowed: 1 (Initial order maximum: 1)
  - OS level required: i5/OS V5R4, or later
  - Initial Order/MES/Both/Supported: Both
  - CSU: Yes

**(#7790) — 525 Express Configuration 1:** #7790 provides an edition feature designating an Express Configuration of a 9406-525 system with server feature #0909 and processor feature #8330.

- Attributes provided: Model 525 Express Configuration
- For 9406-525: (#7790)
  - Minimum required: 0
  - Maximum allowed: 1 (Initial order maximum: 1)
  - OS level required: i5/OS V5R4, or later

- Initial Order/MES/Both/Supported: Both
- CSU: Yes

**(#7791) — 525 Express Configuration 2:** #7791 provides an edition feature designating an Express Configuration of a 9406-525 system with server feature #0909 and processor feature #8330.

- Attributes provided: Model 525 Express Configuration
- For 9406-525: (#7791)
  - Minimum required: 0
  - Maximum allowed: 1 (Initial order maximum: 1)
  - OS level required: i5/OS V5R4, or later
  - Initial Order/MES/Both/Supported: Both
  - CSU: Yes

**(#7792) — 525 Express Configuration 3:** #7792 provides an edition feature designating an Express Configuration of a 9406-525 system with server feature #0909 and processor feature #8330.

- Attributes provided: Model 525 Express Configuration
- For 9406-525: (#7792)
  - Minimum required: 0
  - Maximum allowed: 1 (Initial order maximum: 1)
  - OS level required: i5/OS V5R4, or later
  - Initial Order/MES/Both/Supported: Both
  - CSU: Yes

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## Publications

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No publications are shipped with the announced features.

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## Services

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### Global Technology Services

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IBM services include business consulting, outsourcing, hosting services, applications, and other technology management.

These services help you learn about, plan, install, manage, or optimize your IT infrastructure to be an On Demand Business. They can help you integrate your high-speed networks, storage systems, application servers, wireless protocols, and an array of platforms, middleware, and communications software for IBM and many non-IBM offerings. IBM is your one-stop shop for IT support needs.

For details on available services, contact your IBM representative or visit

<http://www.ibm.com/services/>

For details on available IBM Business Continuity and Recovery Services, contact your IBM representative or visit

<http://www.ibm.com/services/continuity>

For details on education offerings related to specific products, visit

Select your country, and then select the product as the category.

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## Technical information

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### Specified operating environment

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#### Physical specifications

Model 525	Width	Depth	Height	Weight
Rack-mounted drawer	437 mm (17.2 in)	584 mm (23 in)	178 mm (7 in)	43 kg (95 lb)
Stand-alone server	201 mm (7.9 in)	630 mm (23 in)	533 mm (21 in)	43 kg (95 lb)
Expansion Towers				
#0588 PCI-X Expansion Unit in Rack	485 mm (19.1 in)	1075 mm (42.3 in)	200 mm (8.0 in)	68 kg (150 lb)
#0595 PCI-X Tower Unit in Rack	366 mm (14.5 in)	728 mm (28.7 in)	610 mm (24.0 in)	52.7 kg (116 lb)
#5088 PCI-X Expansion	485 mm (19.1 in)	1075 mm (42.3 in)	200 mm (8.0 in)	68 kg (150 lb)
#5094 PCI I/O Enclosure	485 mm (19.1 in)	1075 mm (42.3 in)	910 mm (35.8 in)	280 kg (617 lb)
#5095 PCI-X Expansion	366 mm (14.5 in)	728 mm (28.7 in)	610 mm (24.0 in)	52.7 kg (116 lb)
#5096 PCI-X Expansion	485 mm (19.1 in)	1075 mm (42.3 in)	910 mm (35.8 in)	280 kg (617 lb)
#5294 PCI 1.8m I/O Tower	216 mm (8.5 in)	1020 mm (40.1 in)	1800 mm (71.0 in)	726 kg (1600 lb)
#5296 PCI 1.8 m I/O Rack	650 mm (25.5 in)	1020 mm (40.1 in)	1800 mm (71.0 in)	726 kg (1600 lb)
#5786 PCI-X Expansion Unit in Rack	447 mm (17.5 in)	660 mm (26.0 in)	171 mm (6.75 in)	54 kg (120 lb)
#5787 PCI-X Tower Unit in Rack	447 mm (17.5 in)	660 mm (26.0 in)	171 mm (6.75 in)	54 kg (120 lb)
#5790 PCI-X Expansion Tower	220 mm (8.7 in)	711 mm (28.0 in)	170 mm (6.6 in)	16.8 kg (37 lb)

For installation planning information, refer to the System i planning Web site at

<http://publib.boulder.ibm.com/series/>

Select V5R4, then Site Map, and then Hardware Installation and Use.

#### Operating environment

Electrical	Model 525
kVA (maximum)	0.789

Rated voltage and frequency	100-127/200-240 V ac@50/60 Hz(+/- .5)
Power consumption (maximum)	750 watts
Thermal output (maximum)	2560 Btu/hr
Noise level (dBA)	
Rack drawer (operating)	6.0 bels
Deskside (operating)	6.8 bels
Inrush and leakage current (mA)	88 ampere 1.2
Recommended operating temperature	5 to 35 degrees C (41 to 95 degrees F)
Relative humidity	8% to 80%(1)
Wet bulb temperature (operating)	23 degrees C (73.4 degrees F)

(1) All tape media used on the 9406 must have a relative humidity range of 20% to 80%.

**Voltage:** Model 525 and expansion units/towers #0595 and #5095 operate at low voltage (100 to 127 V ac) or high voltage (200 to 240 V ac). Expansion units/towers #0588, #5088, #5094, and #5294 operate at high voltage only.

The appropriate system power cord is added automatically by the configurator based on the country in which the order is placed. For default power cord, other power cord options, and additional technical planning information, refer to the iSeries planning Web site at

<http://publib.boulder.ibm.com/series/>

Select V5R4, then Site Map, and then Hardware Installation and Use.

**Hardware requirements:** System i model 525 requires i5/OS V5R4, or later.

Other operating systems that run on the System i model 525 are:

- AIX 5L™ for POWER™ V5.3, or later
- Red Hat Enterprise Linux AS for POWER Version 4, or later
- SUSE LINUX Enterprise Server 9 for POWER, or later

Some features may require updates.

For additional prerequisite information, visit

[http://www-912.ibm.com/e\\_dir/eServerPrereq.nsf](http://www-912.ibm.com/e_dir/eServerPrereq.nsf)

## Planning information

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**Customer install of DASD IOA feature conversions with return of parts:** The following feature conversions are designated as customer install responsibility. You are responsible for planning and installing these feature conversions, and you are required to return parts to IBM. Return parts shipping details are defined in the MES instructions.

### Feature conversions

From: To:

2757 2780  
2757 5582  
2757 5583  
2757 5738  
2757 5777

2780 5582  
2780 5583  
2780 5738  
2780 5777

5580 5582  
5580 5583

5581 5580  
5581 5582  
5581 5583

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5590 5583

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IBM service representatives can assist you for a fee. The fee may not apply if the conversion is part of a larger MES that requires installation by a service representative.

**Cable orders:** No cable orders required

**Supplies:**

Tape cartridges

- 30GB 1/4-inch Cartridge Tape Units

**Data cartridges (write and read):**

- IBM SLR60-37.5GB (24R0146) 37.5GB
- IBM SLR60-30GB (19P4209) 30GB
- IBM SLR100-5GB (35L0661) 5GB

- 50GB 1/4-inch Cartridge Tape Units

**Data cartridges (write and read):**

- IBM SLR100-50GB (35L0968) 50GB
- IBM SLR60-37.5GB (24R0146) 37.5GB
- IBM SLR60-30GB (19P4209) 30GB
- IBM SLR100-5GB (35L0661) 5GB

- 36 GB DAT72 4-mm tape drives

**Data cartridges (write and read):**

- IBM DDS3 Data Cartridge (59H3465) 12GB
- IBM DDS4 Data Cartridge (59H4456) 20GB
- IBM DAT72 Data Cartridge (18P7912) 36GB

Cleaning cartridges

- 36 GB DAT72 4-mm tape drives

**Test and cleaning cartridges**

- IBM DAT72 Cleaning Cartridge (21F8763)
- IBM Test Cartridge (59H4457)

All data cartridge capacities shown are uncompressed.

**Sales and support**

You can get assistance, answers to product-related questions, or arrange for a warranty product replacement — with just one call. To locate your nearest source for ordering IBM media products, call the following numbers worldwide:

- 888-IBM-MEDIA (426-6334) in the U.S. and Canada
- +1-972-881-0733 in Latin America and Asia/Pacific
- +31-433-502-756 in Europe, the Middle East and Africa
- +81-3-3808-8486 in Japan

For additional product information and country-specific phone numbers, visit

<http://www.ibm.com/storage/media>

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### Security, auditability, and control

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System i uses the security and auditability features of IBM i5/OS. Use of these facilities is optional. The security measures supplied by i5/OS are designed to reduce the risk of users changing or destroying data resources, but do not prevent it. The i5/OS security features include the use of passwords, a security option to limit a user to only functions provided by customer-designed menus, and a security option to limit read/write access for files, libraries, and folders during normal operations. To achieve increased security, the i5/OS controls should be combined with physical security, division of duties, and other appropriate measures. The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communications facilities.

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### IBM Electronic Services

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IBM has transformed its delivery of hardware and software support services to put you on the road to higher system availability. Electronic Services is a Web-enabled solution that offers an exclusive, no-additional-charge enhancement to the service and support available for IBM servers. These services provide the opportunity for greater system availability with faster problem resolution and preemptive monitoring. Electronic Services comprises two separate, but complementary, elements: Electronic Services news page and Electronic Services Agent.

The Electronic Services news page is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. The news page enables you to gain easier access to IBM resources for assistance in resolving technical problems.

The Electronic Service Agent™ is no-additional-charge software that resides on your server. It monitors events and transmits system inventory information to IBM on a periodic, client-defined timetable. The Electronic Service Agent automatically reports hardware problems to IBM. Early knowledge about potential problems enables IBM to deliver proactive service that may result in higher system availability and performance. In addition, information collected through the Service Agent is made available to IBM service support representatives when they help answer your questions or diagnose problems.

To learn how Electronic Services can work for you, visit

<http://www.ibm.com/support/electronic>

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### Terms and conditions

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**IBM credit corporation financing:** Yes

**Warranty period:** One year

**Warranty service:** If required, IBM provides repair or exchange service depending on the type of warranty service specified for the machine. IBM will attempt to resolve your problem over the telephone, or electronically via an IBM Web site. You must follow the problem determination and resolution procedures that IBM specifies. Scheduling of service will depend upon the time of your call and is subject to parts availability.

Service levels are response time objectives and are not guaranteed. The specified level of warranty service may not be available in all worldwide locations. Additional charges may apply outside IBM's normal service area. Contact your local IBM representative or your reseller for country- and location-specific information.

**Customer replaceable unit (CRU) service:** If your problem can be resolved with a CRU (keyboard, mouse, speaker, memory, HDD and other easily replaceable parts), IBM will ship these parts to you for replacement by you. If IBM instructs you to return the replaced CRU, you are responsible for returning it to IBM in accordance with IBM's instructions. If you do not return the defective CRU, if IBM so instructs, within 15 days of your receipt of the replacement CRU, IBM may charge you for the replacement.

**On-site service:** IBM on-site repair (IOR), 24 hours per day, 7 days a week, same-day response. IBM will repair the failing machine at your location and verify its operation. You must provide a suitable working area to allow disassembly and reassembly of the IBM machine. The area must be clean, well-lit, and suitable for the purpose.

**Warranty service upgrades and maintenance service options:** For ServiceElect (Z125-5510) and ServiceSuite™ (Z125-5745) Statements of Work

IOR, 24 hours a day, 7 days a week, same-day response

**Maintenance services:** IOR, 24 hours a day, 7 days a week, same-day response

**Usage plan machine:** No

**IBM hourly service rate classification:** Two

When a type of service involves the exchange of a machine part, the replacement may not be new, but will be in good working order.

**Field-installable features:** Yes

**Model conversions:** No

**Machine installation:** Customer setup. Customers are responsible for installation according to the instructions IBM provides with the machine.

**Graduated program license charges apply:** Yes

The following processor groups apply for software with graduated charges.

Machine type	Model	Edition	Processor Group
9406	525	7790 Express Configuration 1	P10
9406	525	7791 Express Configuration 2	P10
9406	525	7792 Express Configuration 3	P10
9406	525	6910 CBU Configuration 1	P10

**Licensed Machine Code:** IBM Machine Code is licensed for use by a customer on the IBM Machine for which it was provided by IBM under the terms and conditions of the IBM License Agreement for Machine Code, to enable the machine to function in accordance with its specifications, and only for the capacity authorized by IBM and acquired for the customer.

Machine Code may sometimes be referred to as "Licensed Internal Code" or "LIC" in documentation or on the machine with which the Machine Code was delivered. All such code, whether referred to or marked as Machine Code, Licensed Internal Code or LIC is subject to the IBM License Agreement for Machine Code.

Should it become necessary for IBM to make changes to Machine Code, IBM will make the changes available at the IBM System i technical support page on [ibm.com](http://ibm.com). If the machine does not function as warranted and your problem can be resolved through your application of Machine Code changes, you are responsible for downloading and installing the designated Machine Code changes as IBM specifies. You may request IBM to install Machine Code changes; however, you may be charged for the installation of such changes.

You can obtain a copy of the agreement at the following Web site or by contacting your IBM representative.

[http://www-1.ibm.com/servers/support/machine\\_warranties/machine\\_code.html](http://www-1.ibm.com/servers/support/machine_warranties/machine_code.html)

Machine using LMC Type Model: 9406-525

**Educational allowance:** A reduced charge is available to qualified education customers. The educational allowance may not be added to any other discount or allowance.

The educational allowance is 15% for the products in this announcement.

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## Prices

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## Model

Description	Purchase price	MMC	ESA 24x7	CSU
MT 9406 Model 525	\$0	\$57	\$50	Yes

## Features and specify codes

Description	Feature	Purchase price	MMC 24x7	ESA 24x7	CSU	MMC 9x5
Bulk Order Indicator	0005	\$ 0			Yes	
LPAR Restrict Build Process	0006	0			N/A	
Modem	0032	525	\$ 5	\$ 5	Yes	\$4
Mirrored System Disk Level	0040	0			Yes	
Device Parity Protection-All	0041	0			Yes	
Mirrored System IOP Level	0042	0			Yes	
Mirrored System Bus Level	0043	0			Yes	
Device Parity RAID-6 All	0047	0			Yes	
External xSeries Attach	0092	0			Yes	
Logical Partitioning Specify	0140	0			Yes	
HSL OptiConnect Specify	0141	0			Yes	
Linux Partition Specify	0142	0			Yes	
AIX Partition Specify	0145	0			Yes	
Extended Single Ended Attach	0162	0			Yes	
Fibre Channel Attach	0163	0			Yes	
VHDCI Attachment	0165	0			Yes	
RISC-to-RISC Data Migration	0205	0			N/A	
100Mbps Token-Ring Specify	0223	0			Yes	
100/10Mbps Ethernet Specify	0224	0			Yes	
1Gbps Ethernet Specify	0225	0			Yes	
1Gbps Ethernet Specify	0226	0			Yes	
Renovated by IBM	0272	0			N/A	
CSC Specify	0275	0			Yes	
CSC Specify	0276	0			Yes	
CSC Specify	0277	0			Yes	
CSC Specify	0278	0			Yes	
CSC Specify	0279	0			Yes	
CSC Specify	0280	0			Yes	
CSC Specify	0281	0			Yes	
CSC Specify	0282	0			Yes	
Ext Tape Attached via #5736	0290	0			Yes	
Custom Data Protection	0296	0			Yes	
MES Conversion Analysis	0299	0			Yes	
EXP24 Attach via #5736/#5775	0300	0			Yes	
EXP24 Attach via #5737/#5776	0301	0			Yes	
Mirrored System-IOA Level	0308	0			Yes	
EXP24 Attach via #5739/#5778	0310	0			Yes	
V. 24/EIA232 20-Ft PCI Cable	0348	125			Yes	
V. 35 20-Ft PCI Cable	0353	125			Yes	
V. 36 20-Ft PCI Cable	0356	125			Yes	
X. 21 20-Ft PCI Cable	0359	125			Yes	
Operations Console PCI Cable	0367	125			Yes	
LC-SC Adapter Kit (50um)	0371	83			Yes	
LC-SC Adapter Kit (62.5um)	0372	83			Yes	
UPS Factory Integration	0373	0			N/A	
HMC Factory Integration	0374	0			N/A	
Display Factory Integration	0375	0			N/A	
Reserve Rack Space - UPS	0376	0			Yes	
Reserve Rack Space - HMC	0377	0			Yes	
Reserve Rack Space - Display	0378	0			Yes	
512MB DDR Server Memory	0446	440			Yes	
1GB DDR Server Memory	0447	1,170			Yes	
LPAR Partition Init	0454	300			N/A	
LPAR Software Preload	0455	600			N/A	
Customer Placement	0456	400			N/A	
Custom Rack Placement	0469	500			N/A	
Project Identify Code	0473	0			Yes	
Force i5/OS Preload	0496	0			N/A	
V5R4 OS, V5R4MO Machine Code	0532	0			Yes	



iSeries Rack	0551	2,668			Yes
iSeries 2.0m Rack	0553	3,625			Yes
iSeries 11U Rack	0554	1,129			Yes
iSeries 25U Rack	0555	1,999			Yes
PCI-X Expansion Unit in Rack	0588		103	210	Yes
PCI-X Tower Unit in Rack	0595	7,995	250	241	Yes 159
Rack Filler Panel Kit	0599	75			Yes
CCEP	0600	0			Yes
Direct Attach-2742	0613	425			Yes
Direct Attach-2793	0614	800			Yes
Direct Attach-2793	0616	1,600			Yes
Direct Attach-5700	0620	863			Yes
Direct Attach-5701	0621	699			Yes
Direct Attach-2780	0627	6,200			Yes
4Gbps Fibre Channel (1-Port)	0629	2,646			Yes
PCI-X 1Gbps iSCSI TOE-Copper	0630	1,191			Yes
PCI-X 1Gbps iSCSI TOE-Optic	0631	1,853			Yes
PCI USB 2.0 Adapter	0632	45			Yes
Graphics Adapter	0633	412			Yes
PCI-X Disk/Tape Ctrlr No IOP	0647	587			Yes
PCI-X Disk Ctrlr-90MB No IOP	0648	1,999			Yes
#5094 Equivalent	0694	0			Yes
#5096 Equivalent	0696	0			Yes
Forced #5702/#5712 Placement	0708	0			Yes
#4319 Load Source Specify	0830	0			Yes
#4326 Load Source Specify	0834	0			Yes
#4327 Load Source Specify	0835	0			Yes
#4328 Load Source Specify	0836	0			Yes
SAN Load Source Specify	0837	0			Yes
1/2W Serv Feat 525 1x8330	0909		75	66	Yes
Assembled in USA	0983	0			N/A
Modem Cable - US/Canada	1025	0			Yes
70.56GB 15k rpm Disk Unit	1267	999			Yes
141.12GB 15k rpm Disk Unit	1268	1,799			Yes
73.4GB 15k rpm Disk Unit	1297	659			Yes
146.8GB 15k rpm Disk Unit	1298	1,299			Yes
300GB 10k rpm Disk Unit	1299	1,599			Yes
1.75m HSL-2 Cable	1307	400			Yes
2.5m HSL-2 Cable	1308	450			Yes
System Unique Identifier	1311	0			Yes
200V 16A 14-Ft TL Line Cord	1406	0			Yes
200V 6-Ft Line Cord	1410	0			Yes
200V 14-Ft Line Cord	1411	0			Yes
125V 6-Ft Line Cord	1412	0			Yes
200V 6-Ft Locking Line Cord	1414	0			Yes
200V 6-Ft Wrtght Line Cord	1415	0			Yes
3m IEC 320 C13/14 PDU Cord	1422	0			Yes
200V 6-Ft Line Cord	1451	0			Yes
200V 14-Ft Line Cord	1452	0			Yes
200V 6-Ft Locking Line Cord	1453	0			Yes
200V 12A 14-Ft TL Line Cord	1454	0			Yes
200V 6-Ft Wrtght Line Cord	1455	0			Yes
200V 14-Ft Wrtght Line Cord	1456	0			Yes
200V 6-Ft Upper Line Cord	1457	0			Yes
200V 6-Ft Upper Locking Cord	1458	0			Yes
200V 6-Ft Upper Wrtght Cord	1459	0			Yes
3m Copper HSL Cable	1460	450			Yes
6m Copper HSL Cable	1461	550			Yes
15m Copper HSL Cable	1462	1,100			Yes
6m HSL to HSL-2 Cable	1474	650			Yes
10m HSL to HSL-2 Cable	1475	1,200			Yes
1.2m HSL-2 Cable	1481	350			Yes
3.5m HSL-2 Cable	1482	550			Yes
10m HSL-2 Cable	1483	850			Yes
15m HSL-2 Cable	1485	1,100			Yes
3m HSL to HSL-2 Cable	1487	400			Yes
Serial-UPS Conversion Cable	1827	95			Yes
ASYNCR Terminal/Prt Cable	1860	76			Yes
Dwr to Dwr Serial Cable	1873	67			Yes
Rack to Rack Serial Cable	1874	67			Yes
Serial Port Converter Cable	1875	21			Yes
73.4GB 15k rpm Disk Unit	1897	659			Yes
146.8GB Disk Unit	1898	1,299			Yes
1m SCSI Cable	2124	125			Yes

3m SCSI Cable	2125	140			Yes
5m SCSI Cable	2126	155			Yes
10m SCSI Cable	2127	210			Yes
20m SCSI Cable	2128	330			Yes
0.55m SCSI Cable	2138	75			Yes
Ext 1.44GB Diskette Drive	2591	83			Yes
DVD-ROM	2640	207			Yes
PCI Two-Line WAN IOA	2742	425			Yes
PCI-X Ultra4 RAID Disk Ctrl	2780	6,200			Yes
PCI 2-Line WAN w/Modem	2793	800			Yes
PCI Quad Modem IOA	2805	1,600			Yes
PCI IOP	2844	2,100			Yes
PCI IOP for SAN Load Source	2847	2,500			Yes
4-Position Int Bus Cable	2877	25			Yes
HSL-2 Bus Adapter	2887	3,000			Yes
HSL-2/RI0-G Ports - 2 Copper	2888	475			Yes
English U/L DBCS	2917	0			Yes
English	2924	0			Yes
ASYNc Terminal/Prt Cable	2934	37			Yes
ASYNc Modem Cable	2936	61			Yes
8-Port ASYNc Adapter	2943	1,162			Yes
Universal Japanese	2958	0			Yes
T120 TFT 20" Color Display	3643	1,325			Yes
T119 TFT 19" Color Display	3644	845			Yes
T117 TFT 17" Color Display	3645	700			Yes
6-Ft Ext Cable for Display	4242	83			Yes
Extender Cable for Keybd	4256	42			Yes
Direct Attach Tape Cables	4263	88			Yes
70.56GB 15k rpm Disk Unit	4327	999			Yes
141.12GB 15k rpm Disk Unit	4328	1,799			Yes
1GB DDR2 Main Storage	4400	550			Yes
2GB DDR2 Main Storage	4474	1,160			Yes
4GB DDR2 Main Storage	4475	2,781			Yes
8GB DDR2 Main Storage	4477	9,900			Yes
DVD-RAM	4633	1,600			Yes
50GB 1/4-Inch Cartridge Tape	4687	6,000			Yes
160GB VXA-320 Tape Drive	4688	1,500	23	20	Yes
PCI Twinaxial Workstn IOA	4746	750			Yes
PCI-X Crypto Coprocessor	4806	9,000			Yes
PCI Integ xSeries Server	4811	2,780			Yes
PCI Integ xSeries Server	4812	2,780			Yes
PCI Integ xSeries Server	4813	2,780			Yes
Software Preload Required	5000	0			N/A
Customer Solution Center	5001	0			Yes
AS/400 CDSC - Rochester Mfg	5002	0			N/A
PCI Expansion Tower	5074		466	450	Yes
1.8m I/O Tower	5079		2,025	1,860	Yes
PCI-X Expansion Unit	5088		103	210	No
PCI-X Expansion Tower	5094	15,900	466	450	Yes
PCI-X Expansion Tower	5095	7,995	250	241	Yes 159
PCI-X Exp Tower (no disk)	5096	14,500	242	210	Yes
30-Disk Expansion Feature	5101		548	480	No 346
Dual Line Cords - I/O Tower	5105	3,000			No
Dual Line Cords - 5079 Tower	5106	3,000			No
30-Disk Expansion Feature	5108	9,000	548	480	No 346
30-Disk Exp w/Dual Line Cord	5111	9,000	548	480	No 346
Dual Line Cords - Tower	5115	3,000			Yes
Dual Line Cords - 5294 Tower	5116	3,000			Yes
Redundant Power and Cooling	5138	1,350			Yes
850W AC Power Supply	5158	417			Yes
850 Watt Power Supply	5159	417			Yes
1.8m I/O Tower	5294	52,900	2,025	1,860	Yes
1.8m I/O Tower (no disk)	5296	32,100	484	420	Yes
Sys Console on Twinax WSC	5540	0			Yes
Sys Console on OP Console	5544	0			Yes
Sys Console 100Mbps Ethernet	5548	0			Yes
Sys Console On HMC	5550	0			Yes
Sys Console on Thin Console	5552	0			Yes
Sys Console-Ethernet No IOP	5553	0			Yes
Mirror 70GB Disk/Ctlr Pkg	5555	18,188			Yes
Mirror 141GB Disk. Ctlr Pkg	5556	27,788			Yes
Mirror 35GB Drawer Package	5560		250	241	Yes
Mirror 70GB Drawer Package	5561		250	241	Yes
Mirror 35GB Tower Package	5562		250	241	Yes

Mirror 70GB Tower Package	5563		250	241	Yes
5727 Cache + 2 70GB Disk Pkg	5570	2,499			Yes
5727 Cache + 6 70GB Disk Pkg	5571	4,499			Yes
#5738 Ctlr w/Aux Write Cache	5582	6,995			Yes
#5777 Ctlr w/Aux Write Cache	5583	6,995			Yes
#2780 Ctlr w/Aux Write Cache	5590	6,995			Yes
PCI 1Gbps Ethernet IOA	5700	863			Yes
PCI 1Gbps Ethernet UTP IOA	5701	699			Yes
PCI-X 1Gbps Ethernet	5706	999			Yes
PCI-X 1Gbps Ethernet-SX IOA	5707	1,322			Yes
PCI-X 10Gbps Ethernet-SR IOA	5721	4,742			Yes
PCI-X 10Gbps Ethernet-LR IOA	5722	7,999			Yes
2-Port Async EIA-232 PCI IOA	5723	129			Yes
Integrated Cache - 40MB	5727	1,499			Yes
PCI-X Disk/Tape Ctlr w/IOP	5736	587			Yes
PCI-X Disk Ctlr-90MB w/IOP	5737	1,999			Yes
PCI-X Disk Ctlr-1.5GB w/IOP	5738	6,200			Yes
PCI-X EXP24 Ctlr-1.5GB w/IOP	5739	8,500			Yes
1Gbps BaseT Ethernet(4-Port)	5740	830			Yes
EXP24 6 Disk Slot Enabler	5741	499	120	103	Yes
EXP24 6/12 Disk Slot Enabler	5742	998	120	103	Yes
DVD-RAM	5751	499			Yes
30GB 1/4-Inch Cartridge Tape	5753	4,000	23	20	Yes
50GB 1/4-Inch Cartridge Tape	5754	6,000	23	20	Yes
200GB LTO-2 Tape Unit	5755	5,200	23	20	Yes
4Gbps Fibre Channel (2-Port)	5759	3,308			Yes
PCI-X Fibre Chan Disk Ctlr	5760	5,495			Yes
PCI-X Fibre Chan Tape Ctlr	5761	2,646			Yes
PCI-X Disk/Tape Ctlr-No IOP	5775	587			Yes
PCI-X Disk Ctlr-90MB No IOP	5776	1,999			Yes
PCI-X Disk Ctlr-1.5GB No IOP	5777	6,200			Yes
PCI-X EXP24 Ctl-1.5GB No IOP	5778	8,500			Yes
PCI-X EXP24 Ctlr-1.5GB w/IOP	5781	8,550			Yes
PCI-X EXP24 Ctl-1.5GB No IOP	5782	8,550			Yes
PCI-X iSCSI HBA Copper	5783	999			Yes
PCI-X iSCSI HBA Fiber	5784	1,599			Yes
Total Storage EXP24 Disk Dwr	5786	5,500	75	65	Yes
Total Storage EXP24 Disk Twr	5787	6,750	75	65	Yes
PCI Expansion Drawer	5790	5,000	83	90	Yes
PCI-X EXP24 Ctlr-1.5GB w/IOP	5799	8,550			Yes
PCI-X EXP24 Ctl-1.5GB No IOP	5800	8,550			Yes
USB Keyboard-US English	5951	83			Yes
USB Keyboard-French	5952	83			Yes
USB Keyboard-Italian	5953	83			Yes
USB Keyboard-German/Austrian	5954	83			Yes
USB Keyboard-UK English	5955	83			Yes
USB Keyboard-Spanish	5956	83			Yes
USB Keybd-Japanese	5957	83			Yes
USB Keybd-Brazil/Portuguese	5958	83			Yes
USB Keybd-Hungarian	5959	83			Yes
USB Keybd-Korean	5960	83			Yes
USB Keybd-Chinese/US	5961	83			Yes
USB Keybd-French/Canadian	5962	83			Yes
USB Keyboard-Canadian/French	5963	83			Yes
USB Keyboard-Belgium/UK	5964	83			Yes
USB Keyboard-Swedish/Finnish	5965	83			Yes
USB Keyboard-Danish	5966	83			Yes
USB Keybd-Bulgarian	5967	83			Yes
USB Keyboard-Swiss/Fr/German	5968	83			Yes
USB Keyboard-Norwegian	5969	83			Yes
USB Keyboard-Dutch	5970	83			Yes
USB Keyboard-Portuguese	5971	83			Yes
USB Keybd-Greek	5972	83			Yes
USB Keybd-Hebrew	5973	83			Yes
USB Keybd-Polish	5974	83			Yes
USB Keybd-Slovakian	5975	83			Yes
USB Keybd-Czech	5976	83			Yes
USB Keybd-Turkish	5977	83			Yes
USB Keyboard-LA Spanish	5978	83			Yes
USB Keybd-Arabic	5979	83			Yes
USB Keybd-Thailand	5980	83			Yes
USB Keybd-Russian	5981	83			Yes
USB Keybd-Russian	5982	83			Yes
USB Keybd-US English Euro	5983	83			Yes

SPCN Power Cable - 2m	6001	0			Yes
SPCN Power Cable - 3m	6006	40			Yes
SPCN Power Cable - 15m	6007	70			Yes
SPCN Power Cable - 6m	6008	50			Yes
SPCN Power Cable - 30m	6029	90			Yes
Opt Front Door for 1.8m Rack	6068	450			Yes
Opt Front Door for 2.0m Rack	6069	550			Yes
60GB 8mm Tape Unit	6134		23	20	Yes
1.8m Rack Trim Kit	6246	132			Yes
2.0m Rack Trim Kit	6247	158			Yes
1.8m Rack Acoustic Doors	6248	2,700			Yes
2.0m Rack Acoustic Doors	6249	2,700			Yes
36GB 4mm Tape Unit	6258	948	23	20	Yes
160GB VXA-320 Tape Drive	6279	1,500	23	20	Yes
Quad Digital Trunk Adapter	6312	9,580			Yes
HSL-2/RIO-G Bus Adapter	6417	800			Yes
14-Ft 250V/10A Power Cord	6455	0			Yes
14-Ft Int 250V/10A Pwr Cd	6458	0			Yes
12-Ft 250V/10A RA Pwr Cd	6459	0			Yes
14-Ft 125V/15A Power Cord	6460	0			Yes
14-Ft 250V/15A Power Cord	6469	0			Yes
6-Ft 125V/15A Power Cord	6470	0			Yes
6-Ft 250V/15A Power Cord	6487	0			Yes
14-Ft 1PH/48-60A Pwr Cord	6492	200			Yes
6-Ft 250V/15A Power Cord	6497	40			Yes
6-Ft 250V/15A Power Cord	6498	200			Yes
4-Disk Slot Exp - Base Ctlr	6574	244	73	64	Yes
Optional Rack Security Kit	6580	180			Yes
4-Disk Slot Exp - PCI-X Ctlr	6584		73	64	Yes
DASD Locking Kit	6585	10			Yes
Modem Tray for 19-Inch Rack	6586	250			Yes
Rear Cover	6587	54			Yes
4-Disk Slot Exp-PCI-X Ctlr	6594	250	73	64	Yes
Disk Slot Filler (Qty 4)	6598	40			Yes
14-Ft 1PH/24-30A Pwr Cord	6654	200			Yes
14-Ft 1PH/24-30A WR Pwr Cord	6655	200			Yes
7-Ft 200V PDU Power Cable	6664	0			Yes
9-Ft IEC 320 C13/14 PDU Cord	6671	17			Yes
5-Ft IEC 320 C13/14 PDU Cord	6672	17			Yes
PCI 1Gbps Ethernet IOA	6800	863			Yes
PCI 1Gbps Ethernet UTP IOA	6801	699			Yes
PCI WAN for ECS	6803	800			Yes
525 CBU Configuration 1	6910	29,900	0	0	
Acoustic Front Door	7180	0			Yes
Easy-Access Front Cover	7181	0			Yes
Rack Mount	7182	0			Yes
Power Distribution Unit	7188	1,000			Yes
Adjustable Depth Rack Rails	7198	307			Yes
Dual I/O Unit Enclosure	7307	417			Yes
One Processor Activation	7320	1,800	35	30	Yes
Quantity 150 of #4327	7509	149,850			Yes
Quantity 150 of #4328	7510	269,850			Yes
Quantity 150 of #1267	7521	149,850			Yes
Quantity 150 of #1268	7522	269,850			Yes
Quantity 150 of #1297	7528	98,850			Yes
Quantity 150 of #1298	7529	194,850			Yes
On/Off Proc Enablement	7620	0	0	0	Yes
On/Off Proc Day Billing	7621	298	0	0	Yes
Reserve Capacity Prepaid	7622	8,940	0	0	Yes
2.0m Rack Side Attach Kit	7780	150			Yes
525 Express Configuration 1	7790	34,900	57	50	Yes
525 Express Configuration 2	7791	59,900	57	50	Yes
525 Express Configuration 3	7792	79,900	57	50	Yes
6m HMC Attachment Cable	7801	12			Yes
15m HMC Attachment Cable	7802	26			Yes
Side-by-Side for 1.8m Racks	7840	500			Yes
Ruggedize Rack Kit	7841	1,500			Yes
Blind Swap Cassette (Long)	7862	35			Yes
Blind Swap Cassette (Double)	7863	50			Yes
Deskside	7885	0			Yes
Adv Power Virtualization	7940	590			Yes
RJ45 to DB25 Interposer	8133	100			Yes
1.9GHz Proc 0/2-Way	8330	0	0	0	No
Base Proc Activation	8410	0	0	0	Yes

Opt Base 1GB Server Memory	8546	730	Yes
USB Mouse and Keybd Cable	8841	62	Yes
Southern Hemisphere Display	9004	0	Yes
Base PCI WAN for ECS	9493	0	N/A
Base HSL-2/RI0-G Bus Adapter	9517	0	Yes
Base HSL-2 Bus Adapter	9531	0	Yes
Base 512MB Server Memory	9726	0	Yes
Base PCI IOP	9744	0	Yes
Base PCI 2-Line WAN w/Modem	9793	0	Yes
Base PCI IOP	9844	0	Yes
Base HSL-2 Bus Adapter	9877	0	Yes

### Type/Model Conversions

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From Type	Model	To Type	Model	Parts returned	Purchase price
9406	520	9406	525	Yes	\$0
9402	810	9406	525	Yes	0
9404	810	9406	525	Yes	0
9406	810	9406	525	Yes	0

### Conversions

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**Feature conversions: As applicable, for 9402 to 9406, 9404 to 9406, and 9406:**

From	To:	Parts returned	Purchase price
2743	0601	No	\$ 0
2760	0602	No	0
2744	0603	No	0
4838	0607	No	0
4745	0608	No	0
2772	0609	No	0
2765	0611	No	0
2766	0612	No	0
2742	0613	No	0
2793	0614	No	0
6803	0614	No	0
9493	0614	No	0
9793	0614	No	0
2805	0616	No	0
5700	0620	No	0
6800	0620	No	0
5701	0621	No	0
6801	0621	No	0
2849	0623	No	0
5702	0624	No	0
5704	0625	No	0
2787	0626	No	0
2780	0627	No	0
5703	0628	No	0
5761	0629	No	0
5783	0630	No	0
5784	0631	No	0
5712	0645	No	0
5736	0647	No	0
5775	0647	No	0
5737	0648	No	0
5776	0648	No	0
0902	0909	Yes	0
0903	0909	Yes	0
0904	0909	Yes	0
0905	0909	Yes	0
0906	0909	Yes	0
2465	0909	Yes	0
2466	0909	Yes	0
2467	0909	Yes	0
2469	0909	Yes	0
4326	1266	No	0

4327	1267	No	0
4328	1268	No	0
1893	1293	No	0
1894	1294	No	0
1895	1295	No	0
1896	1296	No	0
1897	1297	No	0
1898	1298	No	0
3578	1299	No	0
1293	1893	No	0
1294	1894	No	0
1295	1895	No	0
1296	1896	No	0
1297	1897	No	0
1298	1898	No	0
9615	2640	No	0
0613	2742	No	0
0601	2743	No	0
0603	2744	No	0
0602	2760	No	0
0611	2765	No	0
0612	2766	No	0
0609	2772	No	0
0627	2780	No	0
2757	2780	Yes	1, 400
0626	2787	No	0
0614	2793	No	0
6803	2793	No	0
9493	2793	No	0
9793	2793	No	0
0616	2805	No	0
0623	2849	No	0
1299	3578	No	0
1266	4326	No	0
1267	4327	No	0
9613	4327	No	0
1268	4328	No	0
9614	4400	No	0
6279	4688	No	300
0608	4745	No	0
4812	4811	No	15
4813	4811	No	15
4811	4812	No	0
4813	4812	No	0
4811	4813	No	50
4812	4813	No	50
0607	4838	No	0
5096	5094	No	3, 000
5296	5294	No	24, 500
5581	5580	Yes	1, 400
2757	5582	Yes	5, 995
2780	5582	Yes	4, 995
5580	5582	Yes	4, 995
5581	5582	Yes	5, 995
5583	5582	No	0
5590	5582	Yes	4, 200
5591	5582	Yes	5, 200
5738	5582	No	1, 995
5777	5582	No	1, 995
2757	5583	Yes	5, 995
2780	5583	Yes	4, 995
5580	5583	Yes	4, 995
5581	5583	Yes	5, 995
5582	5583	No	0
5590	5583	Yes	4, 200
5591	5583	Yes	5, 200
5738	5583	No	1, 995
5777	5583	No	1, 995
2780	5590	No	1, 995
2757	5591	No	1, 995
0620	5700	No	0
6800	5700	No	0
0621	5701	No	0
6801	5701	No	0

0624	5702	No	0
0628	5703	No	0
0625	5704	No	0
0645	5712	No	0
0647	5736	No	0
5775	5736	No	0
0648	5737	No	0
5776	5737	No	0
2757	5738	Yes	5, 200
2780	5738	Yes	4, 200
5777	5738	No	0
5778	5739	No	0
5781	5739	No	0
5782	5739	No	0
5799	5739	No	0
5800	5739	No	0
0629	5761	No	0
5758	5761	No	0
0647	5775	No	0
5736	5775	No	0
0648	5776	No	0
5737	5776	No	0
2757	5777	Yes	5, 200
2780	5777	Yes	4, 200
5738	5777	No	0
5739	5778	No	0
5781	5778	No	0
5782	5778	No	0
5799	5778	No	0
5800	5778	No	0
5739	5781	No	0
5778	5781	No	50
5782	5781	No	0
5799	5781	No	50
5800	5781	No	50
5739	5782	No	50
5778	5782	No	50
5781	5782	No	0
5799	5782	No	50
5800	5782	No	50
0630	5783	No	0
0631	5784	No	0
5739	5799	No	50
5778	5799	No	50
5781	5799	No	50
5782	5799	No	50
5800	5799	No	0
5739	5800	No	50
5778	5800	No	50
5781	5800	No	50
5782	5800	No	50
5799	5800	No	0
4688	6279	No	300
0620	6800	No	0
5700	6800	No	0
0621	6801	No	0
5701	6801	No	0
0614	6803	No	0
2793	6803	No	0
9493	6803	No	0
9793	6803	No	0
7710	6910	Yes	12, 400
7711	6910	Yes	12, 400
7712	6910	Yes	12, 400
7181	7180	No	400
7180	7181	No	400
7885	7182	No	400
7753	7750	No	400
7404	7790	Yes	29, 800
7406	7790	Yes	25, 200
7407	7790	Yes	29, 700
7409	7790	Yes	24, 000
7410	7790	Yes	29, 000
7412	7790	Yes	21, 600

7428	7790	Yes	27,000
7430	7790	Yes	14,400
7452	7790	Yes	22,000
7453	7790	Yes	14,400
7454	7790	Yes	17,300
7455	7790	Yes	14,400
7456	7790	Yes	14,900
7458	7790	Yes	27,800
7459	7790	Yes	17,900
7734	7790	Yes	12,400
7784	7790	Yes	12,400
7404	7791	Yes	54,800
7406	7791	Yes	50,200
7407	7791	Yes	54,700
7409	7791	Yes	49,000
7410	7791	Yes	54,000
7412	7791	Yes	46,600
7428	7791	Yes	52,000
7430	7791	Yes	38,200
7452	7791	Yes	47,000
7453	7791	Yes	27,700
7454	7791	Yes	42,300
7455	7791	Yes	15,000
7456	7791	Yes	39,900
7457	7791	Yes	14,400
7458	7791	Yes	52,800
7459	7791	Yes	42,900
7734	7791	Yes	12,400
7784	7791	Yes	24,000
7404	7792	Yes	74,800
7406	7792	Yes	70,200
7407	7792	Yes	74,700
7409	7792	Yes	69,000
7410	7792	Yes	74,000
7412	7792	Yes	66,600
7428	7792	Yes	72,000
7430	7792	Yes	58,200
7452	7792	Yes	67,000
7453	7792	Yes	47,700
7454	7792	Yes	62,300
7455	7792	Yes	35,000
7456	7792	Yes	59,900
7457	7792	Yes	27,800
7458	7792	Yes	72,800
7459	7792	Yes	62,900
7734	7792	Yes	29,100
7735	7792	Yes	12,400
7784	7792	Yes	46,000
9793	9493	No	0

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