



IBM Power 550 Express Edition: Exceptional reliability, availability, and serviceability for entry and medium-size enterprises

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At a glance

Power 550 servers deliver these benefits:

- 4.2 GHz POWER6 technology for medium-size businesses
- Four-core server offerings to match your business needs
- High reliability
- Ease of installation and use
- Expandability to manage today's and tomorrow's business demands
- Support for IBM i, AIX, and Linux operating systems

For ordering, contact:

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

800-IBM-CALL Reference: YE001

Overview

IBM System i™ and IBM System p™ are unifying the value of their servers into a single, powerful lineup of servers based on industry-leading POWER6™ processor technology with support for the IBM i operating system (formerly known as i5/OS™), and IBM AIX® and Linux™ for Power operating systems. This new, single portfolio of Power Systems servers offers IBM clients industry-leading technology, continued IBM innovation, and the flexibility to deploy the operating system your business requires.

The Power 550 Express Edition is the mid-size member of the portfolio, supporting both IBM i 5.4 and IBM i 6.1 (formerly known as i5/OS V5R4 and i5/OS V6R1). Combining industry-leading POWER6 processor technology from IBM with its flagship operating system for larger entry-size and medium-size clients, the Power 550 servers now offer outstanding performance and value for clients who want to run IBM i applications. These new Power Systems servers offer exceptional reliability, availability, and serviceability (RAS) functions including:

- Built-in reliability through use of highly reliable components
- Recovery from intermittent errors or failover to redundant components
- Detection and reporting of failures and impending failures
- Hardware that automatically initiates actions to affect error correction, repair, or component replacement

The innovative POWER6 processor within the Power 550 servers delivers outstanding performance for running your IBM i applications.

Combined with the IBM i 6.1 operating system, you can experience significant improvements in Java™ and IBM WebSphere® applications. Also designed to help you become more energy efficient, the POWER6 architecture with EnergyScale technology includes features that measure your system's energy use and directs policies toward the energy-efficient operation of the server, while the underlying hardware automatically adjusts to deliver the operating solution that you want.

The Power 550 server offers efficiency and flexibility while supporting up to four 4.2 GHz POWER6 processor cores. It delivers outstanding performance as an application server in addition to supporting consolidation projects to simplify your IT. The Power 550 server is offered as a deskside or 4U (4 EIA units) rack-mount configuration. It supports IBM i, AIX, and Linux operating systems to broaden the application offerings available and increase ways you can manage growth, complexity, and risk.

If you are looking for scalability and expandability, the Power 550 1/4-way offers an excellent package to ensure your Power Systems server can handle your business growth. The Power 550 1/4-way server on demand capabilities allow you to quickly grow from a single active core to four active cores by simply activating additional processors. The Power 550 supports up to 128 GB memory and up to 12 I/O expansion units.

Planned availability date

May 23, 2008

Description



You can order the four-core Power 550 server as a 9409-M50. It includes a minimum of one processor activation, providing a 1/4-way server offering. The second through fourth cores are optionally activated using Capacity Upgrade on Demand (CUoD) (permanent processor activations) to match the needs of your growing business. The Power 550 features a 4.2 GHz, two-core 64-bit POWER6 processor chip with 4 MB of L2 cache per core and 32 MB L3 shared cache.

Power 550 servers feature:

- Up to 18,000 CPW
- Up to 128 GB memory
- Up to full 5250 OLTP capability
- Five PCI express (PCIe)/PCI-X DDR slots
- Up to six hot-swap SAS disk drives in the system unit
- Imbedded SAS disk/tape/DVD controller in the system unit
- Optional 175 MB write cache with auxiliary write cache protection in the system unit
- Up to two I/O loops (HSL/RIO I/O and 12X) and associated I/O drawers/towers
- Up to 546 disk drives (1.7 TB)
- One integrated virtual Ethernet adapter with up to four ports
- One half-high media bay for a SAS tape drive
- One slim line media bay for a DVD-ROM or DVD-RAM drive
- Redundant, hot-swap power and cooling capability
- EnergyScale technology

The Power 550 server, combined with the IBM i 6.1 operating system, supports virtual IBM i

partitions, enabling one IBM i partition to host storage for another partition. With this support, additional IBM i partitions for test, development, and production workloads can more easily be created. Smart IOA Fibre Channel Adapters deliver enhanced performance with IBM DS8000™ SANs.

IBM PowerVM delivers advanced virtualization technologies. With PowerVM Standard Edition, the Power 550 server can support up to 10 partitions per core, supporting multiple IBM i, AIX, and Linux operating environments on a single system. The Power 550 can also support multiple shared processor pools, enabling the capping of processor resources on a group of partitions. Virtual I/O Server (VIOS) offers storage and Ethernet virtualization for IBM i, AIX, and Linux partitions. In addition, with PowerVM Lx86, you can run 32-bit Linux on x86 applications in Linux environments on the Power 550. IBM PowerVM is a chargeable product.

Express editions

Express editions enable initial ease of ordering and offer a lower price than if you ordered "a la carte" or build-to-order. Unlike earlier System i editions on POWER4™ and POWER5™ systems, an edition feature is not required for the Power 550. The only way to use the no-charge features for processor activations is to take advantage of these editions. The Express editions are available only during the initial system order. They cannot be ordered after your system is shipped.

The IBM configurator offers these easy-to-order Express editions that include no-charge activations. You can modify the Express Edition configurations to match the exact requirements for your initial shipment — increasing or decreasing the configuration. If you create a configuration that falls below any of the defined minimums, the IBM configurator replaces the no-charge features with regular charge features with equivalent function.

1/4-way Power 550 Express Edition

To receive no-charge processor activation feature #4946, your initial order must include a minimum of:

- One IBM i processor license
- Eight GB memory
- Eight SAS or SCSI IBM i disk drives (any size) or at least two Fibre Channel adapters
- One 175 MB write cache (#5679), at least one 1.5 GB write cache disk controller (#5583/5782/5782), or at least two Fibre Channel adapters
- Two power supplies (#7707)
- One GX loop adapter (HSL/RIO #5614 or 12X #5616)
- PowerVM Standard Edition, or higher

#7006 1/4-way Power 550 Express Edition suggested starting configuration:

- Two 0/2-core 4.2 GHz processor cards (#4966)
- Four 4 GB memory feature (#4522)
- One 1.5 GB write cache disk controller for EXP24 (#5778)
- Eight 70 GB 15k rpm SCSI disk drives (#4327)
- One #5786 EXP24 disk drawer
- One quad-port 1 Gb integrated Ethernet adapter (#5624)
- Two power supplies, 1700 watt (#7707)
- One PCIe WAN IOA (#2893 or 2894)(country dependent)
- One DVD-ROM (#5756)
- One DASD/media backplane (#8345)
- One 4-mm 36 GB SAS tape drive (#5907)
- Two power cords (6xxx)
- One processor activation (#4946) at no charge
- One server feature #4920

- One IBM i enablement #4994
- One IBM i processor entitlement
- System i Access unlimited users (57xx-XW1)
- PowerVM Standard Edition (#7982)
- One year software maintenance

Solution editions

Solution editions help meet the needs of SAP application users. Users of SAP's mySAP, ERP, BI, CRM, PLM, and SCM can qualify to use this edition.

The Power 550 Solution editions for SAP applications require proof of a minimum purchase before the system is shipped from IBM. For details, visit the Solution Edition Web site at

<http://www.ibm.com/systems/i/editions/solutionedition.html>

For the validation form and entitlement requirements, visit

<http://www.ibm.com/systems/i/editions/validate.html>

Power 550 Solution Editions #7046 2/4-way and #7048 4/4-way offer a larger number of no-charge processor activations and IBM i user license entitlements than the regular Express editions, resulting in a lower initial list price for qualifying clients.

To receive no-charge features on your initial #7046 Solution Edition order, your order must include a minimum of:

- Two processor activations
- Two IBM i processor licenses
- Eight GB memory
- Eight SAS or SCSI IBM i disk drives (any size) or at least two Fibre Channel adapters
- One 175 MB write cache (#5679) or at least one 1.5 GB write cache
- Disk controller (#5583/5782/5782) or at least two Fibre Channel adapters
- Two power supplies (#7707)
- One GX loop adapter (HSL/RIO #5614 or 12X #5616)
- PowerVM Standard Edition, or higher

The no-charge features included are two no-charge processor activations #4946 and one no-charge IBM i processor entitlement.

To receive no-charge features on your initial #7048 Solution Edition order, your order must include a minimum of:

- Four processor activations
- Four IBM i processor licenses
- Eight GB memory
- Eight SAS or SCSI IBM i disk drives (any size) or at least two Fibre Channel adapters
- One 175 MB write cache (#5679), at least one 1.5 GB write cache disk controller (#5583/5782/5782), or at least two Fibre Channel adapters
- Two power supplies (#7707)
- One GX loop adapter (HSL/RIO #5614 or 12X #5616)
- PowerVM Standard Edition, or higher

The no-charge features included are four no-charge processor activations #4946 and two no-charge IBM i processor entitlements.

Suggested starting configurations for the #7046 and #7048 Solution editions are the same as the #7006 1/4-way Express configurations except for a different number of processor activations and IBM i processor licenses.

When you purchase a Power 550 system with an i Edition you are entitled to receive a service voucher at no additional charge. Service vouchers deliver the technical leadership and consulting resources that can help you more fully understand and use the latest features and capabilities of the IBM i operating system. The experts will join your team and help get you started on the road to success with your new operating environment. For more information about vouchers, visit

<http://www.ibm.com/systems/i/hardware/editions/vouchers.html>

Power 550 Capacity BackUp (CBU) capability

The Power 550 systems' CBU designation can help meet your requirements for a second system to use for backup, high availability, and disaster recovery. It enables you to temporarily transfer IBM i processor license entitlements and 5250 Enterprise Enablement entitlements purchased for a primary machine to a secondary CBU-designated system. Temporarily transferring these resources instead of purchasing them for your secondary system may result in significant savings. Processor activations cannot be transferred.

The CBU specify feature #0444 is available only as part of a new server purchase or during an MES upgrade from an existing CBU system to a 9409-M50. Certain system prerequisites must be met and system registration and approval are required before the CBU specify feature can be applied on a new server.

Standard IBM i terms and conditions do not allow either IBM i processor license entitlements or 5250 OLTP (Enterprise Enablement) entitlements to be transferred permanently or temporarily. These entitlements remain with the machine they were ordered for. When you register the association between your primary and on-order CBU system, you must agree to certain terms and conditions regarding the temporary transfer.

After a CBU system designation is approved and the system is installed, you can temporarily move your optional IBM i processor license entitlement and 5250 Enterprise Enablement entitlements from the primary system to the CBU system when the primary system is down or while the primary system processors are inactive. The CBU system can then better support failover and role swapping for a full range of test, disaster recovery, and high availability scenarios. Temporary entitlement transfer means that the entitlement is a property transferred from the primary system to the CBU system and may remain in use on the CBU system as long as the registered primary and CBU system are in deployment for the high availability or disaster recovery operation.

The primary system for a Power 550 server can be:

- 9117-MMA
- 9406-MMA
- 9406-570
- 9409-M50
- 9406-550

These systems have IBM i software licenses with an IBM i P20 or P30 software tier. The primary machine must be in the same enterprise as the CBU system.

Before you can temporarily transfer IBM i processor license entitlements from the registered primary system, you must have more than one IBM i processor license on the primary machine and at least one IBM i processor license on the CBU server. An activated processor must be available on the CBU server to use the transferred entitlement. You can then transfer any IBM i processor entitlements above the minimum one, assuming the total IBM i workload on the primary system does not require the IBM i entitlement you would like to transfer during the time of the transfer. During this temporary transfer, the CBU system's internal records of its total number of IBM i processor license entitlements are not updated, and you may see IBM i license noncompliance warning messages from the CBU system. These warning messages in this situation do not mean you are not in compliance.

Before you can temporarily transfer 5250 entitlements, you must have more than one 5250 Enterprise Enablement entitlement on the primary server and at least one 5250 Enterprise Enablement entitlement on the CBU system. You can then transfer the entitlements that are not required on the primary server during the time of transfer and that are above the minimum of one

entitlement.

For example, if you have a four-core Power 550 as your primary system with two IBM i processor license entitlements (one above the minimum) and two 5250 Enterprise Enablement entitlements (one above the minimum), you can temporarily transfer only one IBM i entitlement and one 5250 Enterprise Enablement entitlement. During the temporary transfer, the CBU system's internal records of its total number of IBM i processor entitlements is not updated, and you may see IBM i license noncompliance warning messages from the CBU system.

If your primary or CBU machine is sold or discontinued from use, any temporary entitlement transfers must be returned to the machine on which they were originally acquired.

For CBU registration and further information, visit

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

Capacity Upgrade on Demand (CUoD)

CUoD enables you to turn on capacity as your needs grow. You can permanently activate inactive processors by ordering one or more #4986 activation features for your 4.2 GHz Power 550. After IBM receives your order, an activation code unique to your server is generated. The activation code is mailed to you and also posted at

<http://www.ibm.com/systems/power/hardware/cod>

Enter the activation code into your server using the hardware management console or the advanced system manager interface, and your newly activated processors are ready to be dynamically allocated when needed.

Adequate operating system processor licenses (IBM i, AIX, or Linux) must be available for all permanently activated processors that have been assigned to a partition or pool.

Detailed information, including step-by-step directions for ordering, enabling, and using CUoD, is available in the Capacity on Demand Planning Guide found at

<http://www.ibm.com/systems/power/hardware/cod>

Upgrades

MES upgrades to the Power 550 from the POWER5 9406-550 are available. They preserve the existing machine serial number. IBM i processor, 5250 Enterprise Enablements, and processor activation investments are protected during the upgrade. Upgrade paths preserving the serial number into the Power 550 (9409-M50) are not available from the 9406-520 or 9406-525. Upgrade paths out of the Power 550 into the 9406 model 570 or 595 preserving the serial number are not available.

If you are upgrading from a 9406-550 CBU Edition, and assuming the primary system has not changed from the originally registered primary/secondary pairing, the CBU specify code is added to an MES upgrade. This avoids unnecessary registration on the CBU Web site.

Continuance of warranty service level

If you are upgrading to a 9409-M50 from a 9406-550 system that is still under warranty, you will continue to have the warranty service level of the 9406 for the remainder of the 9406 one-year warranty period. Because the 9409 has 9 x 5 next-business-day base warranty coverage as opposed to the 9406 24 x 7 same-day base warranty coverage, you must sign a separate warranty service upgrade contract to continue 24 x 7 same-day base warranty coverage. Contact your IBM representative or Business Partner for more details.

Summary of Power 550 configurations

	Four-core 550 9409-M50
Processor	POWER6 4.2 GHz
Processor cache per chip (two cores per chip)	8 MB L2 and 32 MB L3
Processor card feature	2 x #4966

n-way	1/4-way
CPW	4800/18,000
Memory/Main store	2 GB minimum 128 GB maximum
Disk storage*	70 GB minimum 1.7 TB system unit maximum 154 TB system maximum
Disk arms*	2 minimum 6 system unit maximum 546 system maximum
Disk controller *	Minimum 1 imbedded 60 system maximum
Tape drive	0 minimum 1 maximum in system unit 18 system maximum
DVD drive	1 minimum 36 system maximum
HSL or 12X loops	0 minimum 2 maximum
HSL I/O drawers/towers	0 minimum 12 maximum
12X I/O drawers	0 minimum 8 maximum
PCI slots	5 in system unit 171 system maximum
Communication lines	2 minimum ** 12 system unit maximum 162 system maximum
LAN ports usable by IBM i	2 minimum 8 system unit maximum 96 system maximum
Maximum twinax devices	50
IOP-based cards supported (like twinax/older tape)	No in system unit Yes in HSL-attached I/O
Windows(R) integration	
- Integrated xSeries(R) Servers	Yes- 24 maximum
- Integrated xSeries Adapters	Yes- 12 maximum
- iSCSI adapters (PCI-X)	Yes- 42 maximum

Crypto coprocessor	8
Crypto accelerator	4
IBM i Software Tier	P20
Server feature	#4925

* Does not include the option of Fibre Channel attached disk storage via SAN.

** One 2-line WAN adapter in most countries.

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

Memory considerations

Eight DDR2 memory DIMM slots with error checking and correcting (ECC) are used in each Power 550 4.2 GHz processor card. Memory DIMMs are plugged in pairs (one memory feature equals two DIMMs). At least one pair of memory DIMMs (one memory feature) is required on each processor card. Memory features of different sizes can be used on the same system but cannot be mixed in the same processor card. For example, if one 4 GB memory feature is initially installed on a processor card, the only future memory additions supported on that card are additional 4 GB memory features, assuming the first 4 GB memory feature is not removed.

Memory GB	Memory feature	# DIMMs	Maximum GB processor card	MHz
1 GB	#4520	2 x 512 MB	4 GB	667
2 GB	#4521	2 x 1 GB	8 GB	667
4 GB	#4522	2 x 2 GB	16 GB	667
8 GB	#4523	2 x 4 GB	32 GB	667
16 GB	#4524	2 x 8 GB	64 GB	400

You can install up to 128 GB of memory in a four-core Power 550.

PCI slots/GX+ slot

The system unit contains five hot-swap PCI slots:

- Slots 1 and 2 are PCIe x8 2.5 GHz short-length slots.
- Slot 3 is a PCIe x8 2.5 GHz full-length slot.
- Slots 4 and 5 are PCI-X DDR 266 MHz full-length slots.

None of these slots supports an IOP or IOP-based IOA.

The two-core Power 550 has two GX+ slots that share space with PCIe slot 1 and slot 2. If a GX+ adapter is inserted to attach an HSL/RIO or 12X loop, the associated space of the PCIe slot card cannot hold a PCIe adapter. Therefore, if two loops are attached, three PCI slots are available in the system unit.

You can add more PCI slots to the Power 550 system using HSL/RIO-attached I/O towers/drawers or 12X-attached I/O drawers.

SAS disk and SAS disk controller

Six 3.5-inch 15k rpm SAS disk drive bays or disk slots are in the system unit, allowing up to 1.7 TB of IBM i disk storage. SAS disk drives formatted for IBM i are supported in three capacities: 69.7, 139.5, or 283.7 GB. AIX, Linux, or VIOS-formatted SAS drives are also supported in 73.4, 146.6, or 300 GB capacities.

The six disk bays are run by the imbedded SAS disk controller. Because the controller is "owned" by one partition, the owning partition needs to virtualize storage controlled by the imbedded controller to any secondary partition that needs disk storage from these disks.

Many client environments can improve disk performance of the six SAS drives by using the optional #5679 175 MB write cache. This card has a special slot in the Power 550 and does not require a PCI slot. The 175 MB write cache is protected by a 175 MB auxiliary write cache to help avoid single points of failure that would cause extended outages. The auxiliary write cache comes with #5679 and does not require a PCI slot.

With the #5679 175 MB write cache feature, RAID 5 or RAID 6 disk protection can be implemented for the six drive slots in the system unit. The Power 550 can also use the imbedded disk controller with #5679 write cache for driving up to 12 disk slots in a #5886 EXP 12S. Mirroring protection is available through the operating system. RAID 5 requires a minimum of three drives and RAID 6 requires four.

The same imbedded controller that runs the disk drives also runs the SAS tape slot and the slimline DVD drive in the system unit. The #5679 write cache is not used in tape or DVD operations.

For a supported Power 550 configuration, disk drives must be protected by either mirroring or RAID.

#5886 EXP 12S

The #5886 EXP 12S is a 2U (2 EIA) SAS disk drawer in a 19-inch rack. It is attached to a SAS port on the back of the Power 550 system unit via an external SAS cable (#3686 or #3687). It supports up to 12 hot-swap SAS disk drives (#3676/3677/3678 or #3646/3647/3648) and includes redundant power supplies. Its disk controller is the imbedded disk controller in the Power 550 system unit. The #5679 175 MB write cache is a prerequisite to attaching #5886.

Power 550 I/O loop, drawer, and tower options

The Power 550 system can optionally support two GX+ adapters, enabling you to choose any combination of HSL/RIO loops (#5614) or 12X loops (#5616).

- 12X loop can attach up to four #5796 12X I/O enclosures; 12X loop uses 12X cables.
- HSL/RIO loop can attach up to six HSL/RIO I/O enclosures; HSL/RIO loop uses HSL/RIO cables.

The 12X I/O enclosure is the #5796 12X PCI-DDR expansion drawer that contains six full-length PCI-X DDR high-speed slots in a space-efficient package. Because each #5796 takes only half the 19-inch rack width, two #5796 features require only 4U or 4 EIA of 19-inch rack space. Up to two #5796 features can be placed in a #7314 dual 5796 unit enclosure.

Each #5796 takes one of four possible positions per 12X loop. The #5796 attaches to the 12X loop using one of two #5796 12X adapters, one for shorter distances and one for longer distances. You can use the short run adapter #6446 with 12X loops on which all units are contained in the same rack. Use the long run adapter #6457 for units spread across multiple racks. Short run and long run adapters can be mixed on the same loop.

In the following table, Yes indicates that the 12X cable identified in that column can be used to connect the configuration identified to the left.

12X Cable Options

	(1) (#1829)	(#1830)	(2) (#1840)	(#1834) (3)
#5796 to #5796 with Short Run adapter (#6446) in both drawers	Yes	Yes	No	No
#5796 with Short Run adapter (#6446) to #5796 with Long Run adapter (#6457)	Yes	Yes	Yes	No
#5796 to #5796 with Long Run adapter (#6457) in both drawers	Yes	Yes	Yes	Yes
#5796 with Short Run adapter (#6446) to 12X Channel system unit adapter	No	Yes	Yes	No
#5796 with Long Run	No	Yes	Yes	Yes

adapter (#6457) to 12X
Channel system unit
adapter

Notes

1. The 0.6 m 12X cable (#1829) cannot be used to connect to a processor enclosure because of its short length. It is intended for use between two #5796 drawers mounted side-by-side in the same #7314 enclosure or to connect between two #5796 drawers located one beneath the other in a rack.
2. It is possible in some limited configurations to use the 3.0 M 12X cable (#1840) to locate #5796 drawers in adjacent racks. The cable length requires careful management of each drawer location within the rack. The best choice for connecting a #5796 drawer in an adjacent rack is the 8.0 M 12X cable (#1834).
3. The 12X cable (#1834) is intended for use when connecting between two modules that are located in adjacent racks. This cable may not be connected to the 12X Short Run adapter (#6446).

The #5796 supports only smart IOAs and does not support an IOP or a card that requires an IOP. The #5796 includes redundant concurrently maintainable power and cooling. The blind swap PCI mechanism allows for PCI card servicing without removing the I/O expansion drawer.

HSL/RIO

The Power 550 system supports HSL I/O enclosures that allow for PCI-X slots and, in some cases, disk slots. These enclosures were previously available on POWER5 systems. The PCI slots are PCI-X slots that support IOPs, not PCI-X DDR slots. These enclosures are:

- #0595/5095 (7 PCI-X slots and 12 SCSI disk slots)
- #5094/5294 (14 PCI-X slots and 15 to 45 SCSI disk slots)
- #5096/5296 (14 PCI-X slots and 0 disk slots)
- #0588/5088 (14 PCI-X slots and 0 disk slots)
- #5790 (6 PCI-X slots and 0 disk slots)

The #0588 and #5088 are withdrawn from marketing but are supported. The #5094 and #5294 are not orderable as new I/O enclosures but are supported. The #0595, #5095, #5096, #5296, and #5790 can be ordered as new HSL I/O enclosures.

All of these HSL/RIO I/O enclosures are system attached via HSL-2 physical ports and run over an HSL-2 interface. I/O units that were attached to earlier systems using the HSL-1 interface (#9877, #9886, #9887, #2886, #2887) must be upgraded before being attached to the Power 550 system. This includes the #0588/5088, which previously had supported the HSL-2 interface only with an RPQ on POWER5 and POWER5+™ systems. You can order the HSL-2 interface as #6417 (MES) or #9517 (from factory with new I/O tower/drawer).

The #5786 EXP24 disk enclosure is also supported. This I/O enclosure holds up to 24 internal 15k rpm SCSI disk drives that are run by a disk controller in a PCI slot located in the Power 550 processor, 12X, or HSL enclosure.

Disk and disk controller protection rules

The Power 550 is designed to minimize single points of failure. In order to have an IBM-supported configuration, the following minimum level of integrated disk storage is required:

- All disk drives must to be protected by RAID or mirroring.
- All disk controllers with write cache must be protected by either auxiliary write cache or by mirroring the controller. If SCSI disk controllers such as the 40 MB write cache #5703 or #0628 and the 90 MB write cache #5776, #5737, and #0648 are used, they must be mirrored, as these cards do not have an auxiliary write cache option.

Note that the optional write cache option for the system unit #5679 includes auxiliary write cache protection.

PCIe adapters

PCIe adapter slots can support higher speeds and capacities than the PCI-X generation of PCI slots. PCIe and PCI-X slots are physically different. PCIe adapters cannot plug into a PCI-X slot

and vice versa. PCIe adapters do not use an IOP.

The Power 550 processor enclosure has three PCIe slots. The following PCIe adapters are available:

- #2893/9693 PCIe 2-Line WAN with Modem (IBM i, Linux)
- #2894/9694 PCIe 2-Line WAN with Modem (CIM) (IBM i, Linux)
- #5773 PCIe 4Gb Fibre Channel Adapter (IBM i 6.1, Linux, AIX)
- #5767 PCIe 1Gb Ethernet UPT 2-Port IOA (IBM i, Linux, AIX)
- #5768 PCIe 1Gb Ethernet Fiber 2-Port IOA (IBM i, Linux, AIX)

The PCIe 2-Line WAN with modem IOA supports the use of IBM i Operations Console-Direct Attach (commonly called ops console). This IBM i console option uses a special cable #0367 attached to a user-supplied Microsoft® Windows workstation.

IBM i consoles

Select one of the following IBM i consoles:

- Operations console attached via Ethernet port (LAN console) or WAN port (ops console)
- Hardware Management Console (HMC)

A twinax console is not supported unless an HMC is present on the system. A 9944-100 Thin Console is not supported.

Integrated virtual Ethernet (IVE) daughter cards

An IVE daughter card is required on the Power 550 system. This daughter card has a special slot and does not use a PCI slot. Either a #5623 dual-port 10/100/1000 Mb or #5624 quad-port 10/100/1000 Mb can be selected. The Ethernet ports can be virtualized to different partitions, offering flexible configurations.

EnergyScale technology

The Power 550 server includes EnergyScale technology that includes power trending, power saving, capping of power, and thermal measurement capabilities.

Additional components

One #7707 1700 watt ac power supply is required. An optional second #7707 power supply provides redundancy and allows either power supply to be hot-swapped. Each power supply requires a power cord.

An operations panel cable is required. For a deskside system, use #1843. For a rack-mount system, use #1877 to specify a cable.

For a deskside system, include a #7226 deskside specify with a feature #7227 door. For a rack-mount system, a #7229 rack-mount specify with a #7268 bezel feature must be configured.

Other system components include:

- Two system ports and three USB ports for AIX usage
- Two HMC ports
- Two SPCN ports
- One imbedded service processor
- One DASD/media backplane (#8345)

The minimum Power 550 system configuration (9409-M50) must include:

- Two processor cards
- One processor activation
- 2 or 4 GB memory
- One power supply

- One power cord
- Two disks (unless a Fibre Channel adapter is used for SAN disk drive attachment)
- One DASD/media backplane (#8345)
- One operations panel cable
- One IVE daughter card
- One DVD drive
- One WAN adapter
- Rack-mount/deskside features
- IBM i console specify
- Server feature
- IBM i enablement specify
- Language specify

For additional information on the Power 550, visit

<http://www.ibm.com/systems/power>

Accessibility by people with disabilities

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

Section 508 of the U.S. Rehabilitation Act

IBM Power Systems 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.

Product positioning

If you require a mid-size server to run your IBM i business applications, the Power 550 offers a powerful and reliable solution. The Power 550 supports up to four POWER6 cores, up to 128 GB memory, two HSL or 12X loops, and up to 546 disk drives or 154 TB. With CUoD, you can quickly increase your processing power when your business demands it. Clients who in the past would have purchased a System i 550 or a System i 570 with modest I/O capabilities should consider the Power 550.

The Power 550 is available as a four-core server with a P20 software tier.

Power 550 compared to two-core Power 520

The four-core Power 550 (POWER6 9409-M50) offers higher performance and larger I/O capacities than the Power 520. In addition to larger n-way, L3 cache, up to 8X larger memory, and more I/O, it offers more I/O flexibility. The Power 550 has up to two I/O loops instead of the maximum of one I/O loop offered by the two-core Power 520 (9408-M25). With two loops you can attach more I/O, and you can choose to mirror the I/O at a loop level. You can also more easily transition from existing HSL/RIO I/O to 12X I/O. This mixed loop environment enables Power 550 clients to use both an HSL/RIO and a 12X loop on the same system. Having both types of I/O loops enables you to migrate existing I/O and invest in the newest I/O drawer technology at the same time. The Power 550 has a P20 software tier while the two-core Power 520 has a P10 software tier.

Power 550 compared to POWER5 model 550

The four-core (1/4-way) Power 550 (POWER6 9409-M50) is a follow-on product to the POWER5 9406-550 1/4-way. Although the systems are similar, a number of differences exist, particularly in the area of new technologies.

Similarities include:

- IBM i processor licensing and the P20 software tier
- Support for IBM i 5.4, and later
- Four-core processor with a minimum of one processor active (1/4-way)
- Either rack-mounted (4U) or desktside configuration
- 5250 OLTP capability priced per processor's worth of capacity
- Support for the attachment of up to 12 I/O tower/drawers via two HSL/RIO loops

Differences include:

- Uses 4.2 GHz POWER6 technology as opposed to 1.9 GHz POWER5+ technology.
- Uses all PCIe and PCI-X DDR slots as opposed to slower PCI-X slots in the system unit. (An IOP or IOP-based adapter card can be placed in an HSL-attached I/O drawer/tower.)
- Can use either a 12X I/O loop or HSL/RIO loop as opposed to only HSL/RIO loop.
- Includes a 175 MB protected write cache disk controller option for the integrated disk controller in the system unit as opposed to 40 MB unprotected write cache.
- Requires that all internal disk controllers with write cache be protected with either auxiliary write cache or be mirrored.
- Can use the new 2U SAS disk drawer for additional internal disk growth as opposed to just SCSI drives in expansion units.
- Supports a half-high SAS tape drive in the system unit as opposed to a SCSI tape drive.
- Up to four IVE daughter card ports as opposed to two integrated ports.
- Optional use of an edition package.
- Requires PowerVM (previously named Advanced Power Virtualization) for Micro-Partitioning™.
- Includes base warranty of one year with 9 x 5 next-business-day support and customer replaceable unit (CRU) that is upgradable to a higher level of coverage as opposed to 24 x 7 same-business-day support with optional CRU.

Power 550 compared to Power 570

The Power 570 offers more processor growth, more dynamic growth, larger memory maximums, larger I/O maximums and flexibility, and additional redundancy. Power 570 advantages include:

- Up to a 16-core configuration (as opposed to 4-core)
- Faster 4.7 GHz POWER6 processors (as opposed to 4.2 GHz) that yields more performance
- On/Off Capacity on Demand plus Utility on Demand in addition to CUoD
- Ability to hot plug a Power 570 4-core processor drawer and a GX+ loop adapter
- Up to 50% more memory (4-core to 4-core) or up to 600% more memory (16-core 570)
- Up to 100% more I/O loops (4-core to 8-core) or up to 400% more loops (16-core 570)
- Flexibility to mirror both HSL/RIO and 12X loops (8-core 570)
- Redundant service processors with failover capability with 8-core or larger 570
- Multiple processor enclosures that offer additional possibilities to re-IPL, even if one processor enclosure has a hard failure (8-core or larger 570)

The Power 570 has a P30 software tier compared to the Power 550's lower-priced P20 software tier.

Business Partner information

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).

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=108-231>

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Feature availability matrix

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 and feature descriptions by model refer to the online Sales Manual at

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

Feature		Description
	9	
	4	
	0	
	9	
	M	
	5	
	0	
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® Attach
0140	B	Logical Partitioning Specify
0141	B	HSL OptiConnect Specify
0142	B	Linux™ Partition Specify
0145	B	AIX® Partition Specify
0205	I	RISC-to-RISC Data Migration
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 Device Attach Via #5736
0296	B	Custom Data Protection
0299	S	MES Conversion Analysis
0300	B	EXP24 Attach via #5736/#5775
0301	B	EXP24 Attach via #5737/#5776
0302	M	EXP24 Attach via Existing
0308	B	Mirrored System-IOA Level
0310	B	EXP24 Attach via #5739/#5778
0325	S	IPCS Extension Cables for NT
0347	B	RAID Hot Spare Specify
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	S	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
0444	B	CBU Specify
0446	M	512MB DDR Server Memory
0447	M	1GB DDR Server Memory
0456	I	Customer Placement
0469	I	Custom Rack Placement
0533	B	V5R40S, V5R4M5 Machine Code
0534	B	i5/05™ V6R1 M0 Machine Code
0551	B	19 inch 1.8 Meter Rack
0553	B	19 inch 2.0 Meter Rack
0554	S	19 inch 0.6 Meter Rack
0555	B	19 inch 1.3 Meter Rack
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
0603	S	Direct Attach-2744
0613	B	Direct Attach-2742
0614	B	Direct Attach-2793
0616	B	Direct Attach-2805
0620	B	Direct Attach-5700
0621	B	Direct Attach-5701
0624	S	Direct Attach-5702
0625	S	Direct Attach-5704
0626	S	Direct Attach-2787
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
0635	S	SDLC/X.25 - 2-port Adapter
0645	S	Direct Attach-5712
0646	S	Direct Attach-5716
0647	B	PCI-X Disk/Tape Ctlr No IOP
0694	S	#5094 Equivalent
0696	B	#5096 Equivalent
0719	B	Load Source Not in CEC
0720	B	Load Source in #0595/5095
0721	B	Load Source in #5094/5294
0725	B	Load Source in #5786/5787
0727	I	#5886 Load Source placement
0830	S	#4319 Load Source Specify
0834	S	#4326/#1266 Load Source Spec

0835	B	#4327/#1267 Load Source Spec
0836	B	#4328/#1268 Load Source Spec
0837	B	SAN Load Source Specify
0838	B	#3676 Load Source Specify
0839	B	#3677 Load Source Specify
0840	B	#3678 Load Source Specify
0841	B	#4329/#1269 Load Source Spec
0983	I	US TAA COMPLIANCE INDICATOR
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
1269	B	282.25GB 15k rpm Disk Unit
1292	B	300GB 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	S	300GB 10k rpm Disk Unit
1307	B	1.75m HSL-2/RI0-2 Cable
1308	B	2.5m HSL-2/RI0-2 Cable
1311	M	System Unique Identifier
1406	S	200V 16A 14-Ft TL Line Cord
1410	S	200V 6-Ft Line Cord
1411	S	200V 14-Ft Line Cord
1412	S	125V 6-Ft Line Cord
1413	S	125V 14-Ft Line Cord
1414	S	200V 6-Ft Locking Line Cord
1415	S	200V 6-Ft Wtrtght Line Cord
1416	S	200V 14-Ft Locking Line Cord
1417	S	200V 14-Ft Wtrtght Line Cord
1422	S	3m IEC 320 C13/14 PDU Cord
1424	S	200V 6-Ft Locking Line Cord
1425	S	200V 6-Ft Wtrtght Line Cord
1426	S	200V 14-Ft Locking Line Cord
1427	S	200V 14-Ft Wtrtght Line Cord
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 Wtrtght Line Cord
1456	B	200V 14-Ft Wtrtght Line Cord
1457	S	200V 6-Ft Upper Line Cord
1458	S	200V 6-Ft Upper Locking Cord
1459	B	200V 6-Ft Upper Wtrtght Cord
1460	B	3m Copper HSL/RI0 Cable
1461	B	6m Copper HSL/RI0 Cable
1462	B	15m Copper HSL/RI0 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/RI0 to HSL2/RI02 Cbl

1475	B	10m HSL/RI0 to HSL2/RI02 Cbl
1481	B	1. 2m HSL- 2/RI0- 2 Cable
1482	B	3. 5m HSL- 2/RI0- 2 Cable
1483	B	10m HSL- 2/RI0- 2 Cable
1485	B	15m HSL- 2/RI0- 2 Cable
1487	B	3m HSL/RI0 to HSL2/RI02 Cbl
1700	S	IPCS Keyboard/Mouse for NT
1827	B	Serial - UPS Conversi on Cable
1829	B	0. 6 Meter 12X Cable
1830	B	1. 5 Meter 12X Cable
1834	B	8. 0 Meter 12X Cable
1840	B	3. 0 Meter 12X Cable
1843	B	Op Panel Cable for Deskside
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
1873	B	Dwr to Dwr Serial Cable
1874	B	Rack to Rack Serial Cable
1875	B	Serial Port Converter Cable
1877	B	Op Panel Cable for Rack-mount
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
2737	S	PCI USB 1. 1 Adapter
2742	B	PCI Two-Line WAN IOA
2744	S	PCI 100Mbps Token-Ring IOA
2749	S	PCI Ultra Mag Media Ctlr
2757	S	PCI-X Ultra RAID Disk Ctrl
2780	S	PCI-X Ultra4 RAID Disk Ctrl
2787	S	PCI-X Fibre Chan Disk Ctlr
2793	B	PCI 2-Line WAN w/Modem
2805	B	PCI Quad Modem IOA
2843	S	PCI IOP
2844	B	PCI IOP
2847	B	PCI IOP for SAN Load Source
2863	S	4-Port X. 21 Cable
2864	S	4-Port V. 35 DTE Cable
2877	B	4-Position Int Bus Cable
2893	B	PCIe 2-Line WAN w/Modem
2917	B	English U/L DBCS
2924	B	English
2934	B	ASYNc Terminal/Prt Cable
2936	B	ASYNc Modem Cable
2943	B	8-Port ASYNc Adapter
2947	S	PCI Multiprotocol Adapter
2958	B	Universal Japanese
3578	S	300GB 10K rpm Disk Unit
3585	B	300GB 15k rpm Disk Unit
3646	B	73. 4GB 15k rpm SAS Disk Drv
3647	B	146. 8GB 15k rpm SAS Disk Drv
3648	B	300GB 15k rpm SAS Disk Drv
3655	B	SAS HH Cable
3668	B	SAS Cable DASD BP to Bulkh

3676	B	69.7GB 15k rpm SAS Disk Drv
3677	B	139.5GB 15k rpm SAS Disk Drv
3678	B	283.7GB 15k rpm SAS Disk Drv
3686	B	SAS Cable (YI) System to SAS Enclosure, Single Controller/ Dual Path 1.5M
3687	B	SAS Cable (YI) System to SAS Enclosure, Single Controller/ Dual Path 3M
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
4329	B	282.25GB 15k rpm Disk Unit
4430	S	DVD-RAM
4487	S	50GB 1/4-Inch Cartridge Tape
4520	B	1GB RDIMM Memory
4521	B	2GB RDIMM Memory
4522	B	4GB RDIMM Memory
4523	B	8GB RDIMM Memory
4524	B	16GB RDIMM Memory
4630	S	DVD-RAM
4631	S	DVD-ROM
4633	S	DVD-RAM
4684	B	30GB 1/4-Inch Cartridge Tape
4687	B	50GB 1/4-Inch Cartridge Tape
4690	S	Rack Status Beacon Assembly
4691	S	Rack Status Beacon Cable
4692	S	Junction Box Cable
4693	S	Rack Beacon Junct Box Cable
4746	B	PCI Twinaxial Workstn IOA
4801	S	PCI Crypto Coprocessor
4805	S	PCI Crypto Accelerator
4806	B	PCI-X Crypto Coprocessor
4812	S	PCI Integ xSeries Server
4813	S	PCI Integ xSeries Server
4920	B	1/4W 550 Server Feat #4966
4946	I	Base 1W Proc Activ for #4966
4960	S	Cryptographic Accelerator
4963	S	PCI Crypto Coprocessor
4966	B	2-Core 4.2GHz Processor
4986	B	1 Processor Activ for #4966
4994	B	i Enablement Specify
4998	B	Single 5250 Enterprise Enabl
4999	B	Full 5250 Enterprise Enabl
5000	I	Software Preload Required
5001	B	Customer Solution Center
5002	I	System i™ CDSC-Rochester Mfg
5088	S	PCI-X Expansion Unit
5094	S	PCI-X Expansion Tower
5095	B	PCI-X Expansion Tower
5096	S	PCI-X Exp Tower (no disk)
5108	M	30-Disk Expansion Feature
5115	B	Dual Line Cords - Tower
5116	B	Dual Line Cords - 5294 Tower
5138	B	Redundant Power and Cooling
5160	S	Power Dist Unit 1 Phase NEMA
5294	S	1.8m I/O Tower
5296	S	1.8m I/O Tower (no disk)
5544	B	Sys Console on OP Console
5550	B	Sys Console On HMC
5553	B	Sys Console-Ethernet No IOP
5554	S	Mirror 35GB Disk/Ctlr Pkg
5555	S	Mirror 70GB Disk/Ctlr Pkg
5556	S	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
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	S	2780 Ctlr w/Aux Write Cache
5591	S	2757 Ctlr w/Aux Write Cache
5614	B	GX Dual-Port HSL-2/RI0-2 Att
5616	B	GX Dual-port 12x Chan Attch
5623	B	2-Port 1Gb IVE Daughter Card
5624	B	4-Port 1Gb IVE Daughter Card
5679	B	175MB SAS RAID Enablement
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
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
5717	B	1Gb Ethrnet UTP 4-port Adptr
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
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
5749	B	4Gbps Fibre Channel (2-Port)
5756	B	DVD-ROM Drive IDE Slimline
5757	B	DVD-RAM Drive IDE Slimline
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
5767	B	PCIe 1Gb Ethernet UTP 2Port
5768	B	PCIe 1Gb Ethernet Fiber 2Prt
5773	B	PCIe 4Gb Fibre Channel 1Port
5774	B	PCIe 4Gb Fibre Channel 2Port
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	TotalStorage® EXP24 Disk Dwr
5787	S	TotalStorage EXP24 Disk Twr
5790	B	PCI Expansion Drawer
5796	B	PCI-DDR 12X Expansion Drawer
5886	B	EXP 12S SAS Disk Drawer
5907	B	36/72GB 4mm DAT72 SAS Tape Dr
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
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
6417	M	HSL-2/RI0-G Bus Adapter
6438	B	RI0-2 Remote I/O Loop Adapter
6446	B	12X Short Run 5796 Attach
6455	S	14-Ft 250V/10A Power Cord

6457	B	12X Long Run 5796 Attach
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
6469	B	14-Ft 250V/15A Power Cord
6470	B	6-Ft 125V/15A Power Cord
6487	B	6-Ft 250V/15A Power Cord
6492	B	14-Ft 1PH/48-60A Pwr Cord
6497	B	6-Ft 250V/15A Power Cord
6498	S	6-Ft 250V/15A Power Cord
6580	B	Optional Rack Security Kit
6586	B	Modem Tray for 19-Inch Rack
6598	B	Disk Slot Filler (Qty 4)
6654	B	14-Ft 1PH/24-30A Pwr Cord
6655	B	14-Ft 1PH/24-30A WR Pwr Cord
6671	B	9Ft IEC 320 C13/14 PDU Cord
6672	B	5Ft IEC 320 C13/14 PDU Cord
6699	B	RI0-2 Bus Adapter
6800	B	PCI 1Gbps Ethernet IOA
6801	B	PCI 1Gbps Ethernet UTP IOA
6805	B	PCI 2-Line WAN IOA No IOP
6808	B	PCI 4-Modem WAN IOA No IOP
6833	B	PCI 2-Line WAN w/Modem NoIOP
7006	B	1/4-way i Edition
7046	B	2/4-way i Solution Edition
7048	B	4/4-way i Solution Edition
7109	B	Intelligent PDU Plus
7188	B	Power Distribution Unit
7204	B	Quantity 150 of #2124
7205	B	Quantity 150 of #2125
7206	B	Quantity 150 of #2126
7207	B	Quantity 150 of #2127
7208	B	Quantity 150 of #2128
7211	S	Quantity 150 of #1299
7213	B	Quantity 150 of #2138
7226	B	Model 550 Deskside Specify
7227	B	IBM Front Door 550 Deskside
7229	B	Model 550 Rack-mount Specify
7262	B	Quantity 150 of #1292
7268	B	Bezel/Hdwr 550 Rack Mt Drwr
7307	B	Dual I/O Unit Enclosure
7311	S	Dual I/O Unit Enclosure
7314	B	Dual 5796 Unit Enclosure
7504	S	Quantity 150 of #4319
7508	S	Quantity 150 of #4326
7509	B	Quantity 150 of #4327
7510	B	Quantity 150 of #4328
7511	B	Quantity 150 of #4329
7512	B	Quantity 150 of #0300
7513	B	Quantity 150 of #0301
7514	B	Quantity 150 of #5741
7515	B	Quantity 150 of #5742
7516	B	Quantity 150 of #1269
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
7707	B	1700 Watt Power Supply

7780	B	2.0m Rack Side Attach Kit
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	B	Blind Swap Cassette (Long)
7863	B	Blind Swap Cassette (Double)
7982	B	PowerVM Standard Edition
7986	B	PowerVM Enterprise Edition
8131	S	15-Ft Cluster Box Cable
8132	S	9-Inch Cluster Box Cable
8133	B	RJ45 to DB25 Interposer
8345	B	3.5-inch SAS DASD Cage
8546	S	Opt Base 1GB Server Memory
9298	B	Full 5250 Enterprise Enable
9299	B	Base 5250 Enterprise Enable

Publications

No publications are shipped with the announced features.

Services

Global Technology Services

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

<http://www.ibm.com/services/learning/index.html>

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

Technical information

Specified operating environment

Physical specifications: 9409 M50 system unit

	Width	Depth	Height	Weight
Rack-mounted drawer	440 mm (17.3 in)	730 mm (28.7 in)	173 mm (6.81 in)	48.7 kg (107.4 lb)
Stand-alone server (with tip foot)	382.5 mm (12.9 in)	778 mm (30.6 in)	540 mm (21.3 in)	57.2 kg (126.1 lb)

Stand-alone server (without tip foot)	182.5 mm (7.2 in)	778 mm (30.6 in)	540 mm (21.3 in)	53.2 kg (117.3 lb)
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For installation planning information, refer to the planning Web site at

http://publib.boulder.ibm.com/infocenter/systems/scope/hw/topic/iphdx/abstract_site_hw_planning_guide.htm

Operating environment

	9409 M50 system unit (four core)
Electrical	
kVA (maximum)	1.175
Rated voltage and frequency	100-127 V ac or 200-240 V ac at 50/60 Hz(+/-0.5)
Power consumption (maximum)	1140 watts
Thermal output (maximum)	3891 Btu/hr
Power factor	0.97
Inrush current (maximum)	90 A
Leakage current (maximum)	1.6 mA
Estimated noise level (dBa) (operating)	
Rack drawer	7.0 bels
Rack drawer with acoustic door	6.6 bels
Deskside	7.1 bels
Temperature range	
(operating)	5 to 35 degrees C (41 to 95 degrees F)
(non-operating)	5 to 40 degrees C (41 to 104 degrees F)
Maximum dew point	
(operating)	17 degrees C (62.6 degrees F)
(non-operating)	27 degrees C (80.6 degrees F)
Noncondensing humidity	8% to 80%(1)
Maximum altitude	3048 m (10000 ft)

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

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 planning Web site at

http://publib.boulder.ibm.com/infocenter/systems/scope/hw/topic/iphdx/abstract_site_hw_planning_guide.htm

Software requirements: IBM 9409 model M50 requires IBM i 5.4 with 5.4.5 machine code, or later.

Other operating systems that run on this model are:

- AIX 5L™ for POWER™ Version 5.3 with the 5300-08 Technology Level, or later
- AIX Version 6.1 with the 6100-01 Technology Level, or later
- SUSE Linux Enterprise Server 10 (SLES 10) Service Pack 1 for Power, or later
- Red Hat Enterprise Linux V4.5 for Power, or later

- Red Hat Enterprise Linux V5.1 for Power, or later

PowerVM Standard Edition supports Micro-Partitioning™ and other Power virtualization technologies in order to run multiple operating systems per core concurrently on POWER6™ processor-based systems. If installed, PowerVM licensing is required for all active processors.

Some features may require updates.

For additional prerequisite information, visit

http://www-912.ibm.com/e_dir/eServerPrereq.nsf

Planning information

Cable orders: No cable orders required.

Security, auditability, and control

The 9409-M50 uses the security and auditability features of IBM i. Use of these facilities is optional. The security measures supplied by IBM i are designed to reduce the risk of users changing or destroying data resources, but do not prevent it. The IBM i 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 IBM i 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.

IBM Electronic Services

IBM has transformed its delivery of hardware and software support services to help you achieve 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 are designed to 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. Installation and use of IBM Electronic Service Agent for problem reporting enables IBM to provide better support and service for your IBM server.

To learn how Electronic Services can work for you, visit

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

Terms and conditions

Volume orders: Contact your IBM representative.

IBM credit corporation financing: Yes

Warranty period: One year

Warranty service

Warranty service: If required, IBM provides repair or exchange service depending on the types 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. If applicable to your product, parts considered customer replaceable units (CRUs) will be provided as part of the machine's standard warranty service.

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. This product is covered by the following types of service.

CRU service and on-site for other selected parts

CRU service:

IBM provides replacement CRUs to you for you to install. CRU information and replacement instructions are shipped with your machine and are available from IBM upon your request. CRUs are designated as being either a Tier 1 or a Tier 2 CRU.

Tier 1 CRU: Installation of Tier 1 CRUs is your responsibility. If IBM installs a Tier 1 CRU at your request, you will be charged for the installation.

Tier 2 CRU: You may install a Tier 2 CRU yourself or request IBM to install it, at no additional charge.

Based upon availability, CRUs will be shipped for next-business-day delivery. IBM specifies, in the materials shipped with a replacement CRU, whether a defective CRU must be returned to IBM. When return is required, return instructions and a container are shipped with the replacement CRU, and you may be charged for the replacement CRU if IBM does not receive the defective CRU within 15 days of your receipt of the replacement.

The following parts have been designated as Tier 1 CRU parts:

- Cache battery
- Covers
- Disk drive backplane
- Disk drive
- DVD drive
- External cables
- Fan
- Fan tray assembly
- Internal cable
- Tape/DVD drive enclosure and backplane
- Memory DIMMs
- Operator panel
- Operator panel cable
- PCI adapters
- Power cord
- Power supply
- Service processor
- Tape drive
- Time of day battery
- Voltage regulator

On-site service:

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.

9 hours per day, Monday through Friday, excluding holidays, next-business-day response

Warranty service upgrade

During the warranty period, a warranty service upgrade provides an enhanced level of on-site service for an additional charge. A warranty service upgrade must be purchased during the warranty period and is for a fixed term (duration). It is not refundable or transferable and may not be prorated. If required, IBM will provide the warranty service upgrade enhanced level of on-site service acquired by the customer. Service levels are response time objectives and are not guaranteed.

IBM will attempt to resolve your problem over the telephone or electronically by access to 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.

On-site service:

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. The following service selections are available as a warranty upgrade for your machine.

- IBM on-site repair (IOR), 9 hours per day, Monday through Friday, excluding holidays, 4-hour average, same-business-day response
- IOR, 24 hours per day, 7 days a week, 4-hour average response
- IOR, 24 hours per day, 7 days a week, 2-hour average response

CRUs may be provided as part of the machine's standard warranty CRU service except that you may install a CRU yourself or request IBM installation, at no additional charge, under one of the on-site service levels specified. For additional information on the CRU service, refer to the warranty information.

Maintenance services: If required, IBM provides repair or exchange service depending on the types of maintenance 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 maintenance 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. The following service selections are available as maintenance options for your machine type.

On-site service:

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.

- 9 hours per day, Monday through Friday, excluding holidays, next-business-day response
- 24 hours per day, 7 days a week

CRU service:

If your problem can be resolved with a CRU (for example, hard disk drive, tape drive, or CD), and depending upon the maintenance service offerings in your geography, IBM will ship the CRU to you for you to install. CRU information and replacement instructions are shipped with your machine and are available from IBM upon your request.

Based upon availability, CRUs will be shipped for next-business-day delivery. IBM specifies, in the materials shipped with a replacement CRU, whether a defective CRU must be returned to IBM. When return is required, return instructions and a container are shipped with the replacement CRU, and you may be charged for the replacement CRU if IBM does not receive the defective CRU within 15 days of your receipt of the replacement.

CRUs may be provided as part of the machine's standard maintenance service except that you may install a CRU yourself or request IBM installation, at no additional charge, under any of the

on-site service levels specified.

Non-IBM parts support

Under certain conditions, IBM repairs selected non-IBM parts at no additional charge for machines that are covered under warranty service upgrade or maintenance services.

IBM Service provides hardware problem determination on non-IBM parts (for example, adapter cards, PCMCIA cards, disk drives, memory) installed within IBM machines covered under warranty service upgrades or maintenance services and provides the labor to replace the failing parts at no additional charge.

If IBM has a Technical Service Agreement with the manufacturer of the failing part, or if the failing part is an accommodations part (a part with an IBM FRU label), IBM may also source and replace the failing part at no additional charge. For all other non-IBM parts, customers are responsible for sourcing the parts. Installation labor is provided at no additional charge, if the machine is covered under a warranty service upgrade or a maintenance service.

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: Yes

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 / feature	Edition	Processor group
9409	M50/7006	1/4-way i Edition	P20
	M50/7046	2/4-way i Solution Edition	P20
	M50/7048	4/4-way i Solution Edition	P20

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 Power Systems technical support page on 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

Machines using LMC Type Model

9409 M50

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.

Prices

Model

Description	Purchase price	CSU
MT 9409 Model M50	\$5,509	Yes

Maintenance services

Description	Feature number	I OR 24 x 7 MMC	I OR 9 x 5 MMC
MT 9409 Model M50		\$ 124	
Modem	0032	5	\$4
PCI-X Expansion Unit in Rack	0588	200	
PCI-X Tower Unit in Rack	0595	229	
1/4W 550 Server Feat #4966	4920	176	
Base 1W Proc Activ for #4966	4946	0	
1 Processor Activ for #4966	4986	0	
2-Core 4.2GHz Processor	4966	0	
Single 5250 Enterprise Enabl	4998	0	
Full 5250 Enterprise Enabl	4999	0	
PCI-X Expansion Unit	5088	200	
PCI-X Expansion Tower	5094	428	
PCI-X Expansion Tower	5095	230	
PCI-X Exp Tower (no disk)	5096	200	
30-Disk Expansion Feature	5108	456	
1.8m I/O Tower	5294	1,767	
1.8m I/O Tower (no disk)	5296	399	
Mirror 35GB Drawer Package	5560	229	
Mirror 70GB Drawer Package	5561	229	
Mirror 35GB Tower Package	5562	229	
Mirror 70GB Tower Package	5563	229	
EXP24 6 Disk Slot Enabler	5741	98	
EXP24 6/12 Disk Slot Enabler	5742	98	
Total Storage EXP24 Disk Dwr	5786	62	
Total Storage EXP24 Disk Twr	5787	62	
PCI Expansion Drawer	5790	86	
PCI-DDR 12X Expansion Drawer	5796	86	
EXP 12S SAS Disk Drawer	5886	228	
36/72GB 4mm DAT72 SAS Tape D	5907	61	
1/4W i Edition	7006	0	
2/4W i Solution Edition	7046	0	
4/4W i Solution Edition	7048	0	

Features and specify codes

Description	Feature	Purchase price	CSU
Bulk Order Indicator	0005	\$ 0	Yes
LPAR Restrict Build Process	0006	0	N/A
Modem	0032	525	Yes
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
RISC-to-RISC Data Migration	0205	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 Device Attach 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
EXP24 Attach via Existing	0302	0	Yes
Mirrored System-IOA Level	0308	0	Yes
EXP24 Attach via #5739/#5778	0310	0	Yes
IPCS Extension Cables for NT	0325	110	Yes
RAID Hot Spare Specify	0347	0	Yes
V. 24/EIA232 20-Ft PCI Cable	0348	125	Yes
V. 24/EIA232 50-Ft PCI Cable	0349	175	Yes
V. 35 20-Ft PCI Cable	0353	125	Yes
V. 35 50-Ft PCI Cable	0354	175	Yes
V. 36 20-Ft PCI Cable	0356	125	Yes
X. 21 20-Ft PCI Cable	0359	375	Yes
X. 21 50-Ft PCI Cable	0360	175	Yes
V. 24/EIA232 80-Ft PCI Cable	0365	200	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
CBU Specify	0444	0	Yes
512MB DDR Server Memory	0446	440	Yes
1GB DDR Server Memory	0447	1,170	Yes
Customer Placement	0456	400	N/A
Custom Rack Placement	0469	500	N/A
V5R40S, V5R4M5 Machine Code	0533	0	Yes
i5/OS V6R1 MO Machine Code	0534	0	Yes
19 inch 1.8 Meter Rack	0551	2,668	Yes
19 inch 2.0 Meter Rack	0553	3,625	Yes
19 inch 0.6 Meter Rack	0554	1,129	Yes
19 inch 1.3 Meter Rack	0555	1,999	Yes
PCI-X Expansion Unit in Rack	0588	12,000	No
PCI-X Tower Unit in Rack	0595	7,195	Yes
Rack Filler Panel Kit	0599	75	Yes
CCEP	0600	0	Yes
Direct Attach-2744	0603	840	Yes
Direct Attach-2742	0613	425	Yes
Direct Attach-2793	0614	585	Yes
Direct Attach-2805	0616	1,600	Yes
Direct Attach-5700	0620	863	Yes
Direct Attach-5701	0621	699	Yes
Direct Attach-5702	0624	658	Yes
Direct Attach-5704	0625	2,646	Yes
Direct Attach-2787	0626	6,200	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
SDLC/X.25 -- 2-port Adapter	0635	1,666	Yes
Direct Attach-5712	0645	587	Yes
Direct Attach-5716	0646	2,267	Yes
PCI-X Disk/Tape Ctlr No IOP	0647	587	Yes
#5094 Equivalent	0694	0	Yes

#5096 Equivalent	0696	0	Yes
Load Source Not in CEC	0719	0	Yes
Load Source in #0595/5095	0720	0	Yes
Load Source in #5094/5294	0721	0	Yes
Load Source in #5786/5787	0725	0	Yes
#5886 Load Source placement	0727	0	N/A
#4319 Load Source Specify	0830	0	Yes
#4326/#1266 Load Source Spec	0834	0	Yes
#4327/#1267 Load Source Spec	0835	0	Yes
#4328/#1268 Load Source Spec	0836	0	Yes
SAN Load Source Specify	0837	0	Yes
#3676 Load Source Specify	0838	0	Yes
#3677 Load Source Specify	0839	0	Yes
#3678 Load Source Specify	0840	0	Yes
#4329/#1269 Load Source Spec	0841	0	Yes
US TAA Compliance Indicator	0983	0	N/A
Modem Cable -- US/Canada	1025	0	Yes
35. 16GB 15k rpm Disk Unit	1266	1, 199	Yes
70. 56GB 15k rpm Disk Unit	1267	999	Yes
141. 12GB 15k rpm Disk Unit	1268	1, 299	Yes
282. 25GB 15k rpm Disk Unit	1269	2, 799	Yes
300GB 15k rpm Disk Unit	1292	1, 510	Yes
36. 4GB 10k rpm Disk Unit	1293	599	Yes
73. 4GB 10k rpm Disk Unit	1294	599	Yes
146. 8GB 10k rpm Disk Unit	1295	699	Yes
36. 4GB 15k rpm Disk Unit	1296	599	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/RI0-2 Cable	1307	400	Yes
2. 5m HSL-2/RI0-2 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
125V 14-Ft Line Cord	1413	0	Yes
200V 6-Ft Locking Line Cord	1414	0	Yes
200V 6-Ft Wrtght Line Cord	1415	0	Yes
200V 14-Ft Locking Line Cord	1416	0	Yes
200V 14-Ft Wrtght Line Cord	1417	0	Yes
3m IEC 320 C13/14 PDU Cord	1422	0	Yes
200V 6-Ft Locking Line Cord	1424	0	Yes
200V 6-Ft Wrtght Line Cord	1425	0	Yes
200V 14-Ft Locking Line Cord	1426	0	Yes
200V 14-Ft Wrtght Line Cord	1427	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/RI0 Cable	1460	450	Yes
6m Copper HSL/RI0 Cable	1461	550	Yes
15m Copper HSL/RI0 Cable	1462	1, 100	Yes
2m SPCN Cable	1463	0	Yes
6m SPCN Cable	1464	0	Yes
15m SPCN Cable	1465	0	Yes
30m SPCN Cable	1466	0	Yes
6m HSL/RI0 to HSL2/RI02 Cbl	1474	650	Yes
10m HSL/RI0 to HSL2/RI02 Cbl	1475	1, 200	Yes
1. 2m HSL-2/RI0-2 Cable	1481	350	Yes
3. 5m HSL-2/RI0-2 Cable	1482	550	Yes
10m HSL-2/RI0-2 Cable	1483	850	Yes
15m HSL-2/RI0-2 Cable	1485	1, 100	Yes
3m HSL/RI0 to HSL2/RI02 Cbl	1487	400	Yes
IPCS Keyboard/Mouse for NT	1700	90	Yes
Serial-UPS Conversion Cable	1827	95	Yes
0. 6 Meter 12X Cable	1829	350	Yes
1. 5 Meter 12X Cable	1830	400	Yes
8. 0 Meter 12X Cable	1834	725	Yes

3.0 Meter 12X Cable	1840	475	Yes
Op Panel Cable for Deskside	1843	6	Yes
VHDCI to P Converter Cable	1850	50	Yes
0.6m SCSI P-P Cable	1851	90	Yes
2.5m SCSI P-P Cable	1852	108	Yes
4-port EIA 232 Cable	1855	354	Yes
ASYNc 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
Op Panel Cable for Rack-moun	1877	6	Yes
36.4GB 10k rpm Disk Unit	1893	750	Yes
73.4GB 10k rpm Disk Unit	1894	599	Yes
146.8GB 10k rpm Disk Unit	1895	699	Yes
36.4GB 15k rpm Disk Unit	1896	599	Yes
73.4GB 15k rpm Disk Unit	1897	659	Yes
146.8GB Disk Unit	1898	1,299	Yes
Ext Diff SCSI y-Cable	2114	225	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
PCI USB 1.1 Adapter	2737	250	Yes
PCI Two-Line WAN IOA	2742	425	Yes
PCI 100Mbps Token-Ring IOA	2744	840	Yes
PCI Ultra Mag Media Ctrl	2749	1,300	Yes
PCI-X Ultra RAID Disk Ctrl	2757	7,200	Yes
PCI-X Ultra4 RAID Disk Ctrl	2780	6,200	Yes
PCI-X Fibre Chan Disk Ctrl	2787	6,200	Yes
PCI 2-Line WAN w/Modem	2793	585	Yes
PCI Quad Modem IOA	2805	1,600	Yes
PCI IOP	2843	1,925	Yes
PCI IOP	2844	2,100	Yes
PCI IOP for SAN Load Source	2847	2,500	Yes
4-Port X.21 Cable	2863	417	Yes
4-Port V.35 DTE Cable	2864	700	Yes
4-Position Int Bus Cable	2877	25	Yes
PCIe 2-Line WAN w/Modem	2893	585	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
PCI Multiprotocol Adapter	2947	3,021	Yes
Universal Japanese	2958	0	Yes
300GB 10K rpm Disk Unit	3578	1,599	Yes
300GB 15k rpm Disk Unit	3585	1,999	Yes
73.4GB 15k rpm SAS Disk Drv	3646	498	Yes
146.8GB 15k rpm SAS Disk Drv	3647	981	Yes
300GB 15k rpm SAS Disk Drv	3648	1,510	Yes
SAS HH Cable	3655	35	Yes
SAS Cable DASD BP to Bulkhd	3668	80	No
69.7GB 15k rpm SAS Disk Drv	3676	498	Yes
139.5GB 15k rpm SAS Disk Drv	3677	981	Yes
283.7GB 15k rpm SAS Disk Drv	3678	1,510	Yes
SAS Cable Sys to Encl 1.5M	3686	90	Yes
SAS Cable Sys to Encl 3M	3687	110	Yes
35.16GB 10k rpm Disk Unit	4319	750	Yes
35.16GB 15k rpm Disk Unit	4326	1,199	Yes
70.56GB 15k rpm Disk Unit	4327	999	Yes
141.12GB 15k rpm Disk Unit	4328	1,299	Yes
282.25GB 15k rpm Disk Unit	4329	2,799	Yes
DVD-RAM	4430	1,600	Yes
50GB 1/4-Inch Cartridge Tape	4487	6,000	Yes
1GB RDI MM Memory	4520	512	Yes
2GB RDI MM Memory	4521	1,024	Yes
4GB RDI MM Memory	4522	2,048	Yes
8GB RDI MM Memory	4523	5,734	Yes
16GB RDI MM Memory	4524	19,661	Yes
DVD-RAM	4630	1,600	Yes
DVD-ROM	4631	600	Yes
DVD-RAM	4633	1,600	Yes

30GB 1/4-Inch Cartridge Tape	4684	4,000	Yes
50GB 1/4-Inch Cartridge Tape	4687	6,000	Yes
Rack Status Beacon Assembly	4690	417	Yes
Rack Status Beacon Cable	4691	10	Yes
Junction Box Cable	4692	10	Yes
Rack Beacon Junct Box Cable	4693	292	Yes
PCI Twinaxial Workstn IOA	4746	750	Yes
PCI Crypto Coprocessor	4801	5,000	Yes
PCI Crypto Accelerator	4805	6,000	Yes
PCI-X Crypto Coprocessor	4806	9,000	Yes
PCI Integ xSeries Server	4812	2,780	Yes
PCI Integ xSeries Server	4813	2,780	Yes
1/4W 550 Server Feat #4966	4920	0	Yes
Base 1W Proc Activ for #4966	4946	0	N/A
Cryptographic Accelerator	4960	6,000	Yes
PCI Crypto Coprocessor	4963	5,810	Yes
2-Core 4.2GHz Processor	4966	16,092	Yes
1 Processor Activ for #4966	4986	7,573	Yes
i Enablement Specify	4994	0	Yes
Single 5250 Enterprise Enabl	4998	50,000	Yes
Full 5250 Enterprise Enabl	4999	150,000	Yes
Software Preload Required	5000	0	N/A
Customer Solution Center	5001	0	Yes
System i CDSC-Rochester Mfg	5002	0	N/A
PCI-X Expansion Unit	5088	12,000	Yes
PCI-X Expansion Tower	5094	15,900	Yes
PCI-X Expansion Tower	5095	7,195	Yes
PCI-X Exp Tower (no disk)	5096	14,500	Yes
30-Disk Expansion Feature	5108	9,000	No
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
Power Dist Unit 1 Phase NEMA	5160	1,000	Yes
1.8m I/O Tower	5294	52,900	Yes
1.8m I/O Tower (no disk)	5296	32,100	Yes
Sys Console on OP Console	5544	0	Yes
Sys Console On HMC	5550	0	Yes
Sys Console-Ethernet No IOP	5553	0	Yes
Mirror 35GB Disk/Ctlr Pkg	5554	14,226	Yes
Mirror 70GB Disk/Ctlr Pkg	5555	18,188	Yes
Mirror 141GB Disk/Ctlr Pkg	5556	27,788	Yes
Mirror 35GB Drawer Package	5560	27,500	Yes
Mirror 70GB Drawer Package	5561	33,900	Yes
Mirror 35GB Tower Package	5562	27,500	Yes
Mirror 70GB Tower Package	5563	33,900	Yes
2780 Ctlr w/Aux Write Cache	5580	6,995	Yes
2757 Ctlr w/Aux Write Cache	5581	7,995	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
2757 Ctlr w/Aux Write Cache	5591	6,995	Yes
GX Dual-Port HSL-2/RI0-2 Att	5614	1,500	Yes
GX Dual-port 12x Chan Attch	5616	1,100	Yes
2-Port 1Gb IVE Daughter Card	5623	301	Yes
4-Port 1Gb IVE Daughter Card	5624	528	Yes
175MB SAS RAID Enablement	5679	2,500	Yes
PCI 1Gbps Ethernet IOA	5700	863	Yes
PCI 1Gbps Ethernet UTP IOA	5701	699	Yes
PCI-X Ultra Tape Controller	5702	658	Yes
PCI-X RAID Disk Unit Ctlr	5703	1,999	Yes
PCI-X Fibre Chan Tape Ctlr	5704	2,646	Yes
PCI-X 1Gbps Ethernet-TX IOA	5706	999	Yes
PCI-X 1Gbps Ethernet-SX IOA	5707	1,322	Yes
PCI-X Tape Controller	5712	587	Yes
PCI-X 1Gbps iSCSI TOE-Copper	5713	1,191	Yes
PCI-X 1Gbps iSCSI TOE-Optic	5714	1,853	Yes
PCI-X Tape/DASD Controller	5715	658	Yes
1Gb Ethrnet UTP 4-port Adptr	5717	1,099	Yes
10Gbps Ethernet IOA (Short)	5718	5,000	Yes
10Gbps Ethernet IOA (Long)	5719	9,853	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
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	Yes
EXP24 6/12 Disk Slot Enabler	5742	998	Yes
4Gbps Fibre Channel (2-Port)	5749	3,308	Yes
DVD-ROM Drive IDE Slimline	5756	207	Yes
DVD-RAM Drive IDE Slimline	5757	499	Yes
4Gbps Fibre Channel (1-Port)	5758	2,646	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
PCIe 1Gb Ethernet UTP 2Port	5767	699	Yes
PCIe 1Gb Ethernet Fiber 2Prt	5768	1,322	Yes
PCIe 4Gb Fibre Channel 1Port	5773	1,999	Yes
PCIe 4Gb Fibre Channel 2Port	5774	3,308	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
TotalStorage EXP24 Disk Dwr	5786	5,500	Yes
TotalStorage EXP24 Disk Twr	5787	6,750	Yes
PCI Expansion Drawer	5790	4,100	Yes
PCI-DDR 12X Expansion Drawer	5796	5,000	Yes
EXP 12S SAS Disk Drawer	5886	4,500	Yes
36/72GB 4mm DAT72 SAS Tape D	5907	1,150	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
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
HSL-2/RI0-G Bus Adapter	6417	800	Yes
RI0-2 Remote I/O Loop Adaptr	6438	900	Yes
12X Short Run 5796 Attach	6446	575	Yes
14-Ft 250V/10A Power Cord	6455	0	Yes
12X Long Run 5796 Attach	6457	2,500	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
Optional Rack Security Kit	6580	180	Yes
Modem Tray for 19-Inch Rack	6586	250	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
9Ft IEC 320 C13/14 PDU Cord	6671	17	Yes
5Ft IEC 320 C13/14 PDU Cord	6672	17	Yes
RI0-2 Bus Adapter	6699	800	Yes
PCI 1Gbps Ethernet IOA	6800	863	Yes
PCI 1Gbps Ethernet UTP IOA	6801	699	Yes
PCI 2-Line WAN IOA No IOP	6805	425	Yes
PCI 4-Modem WAN IOA No IOP	6808	1,600	Yes
PCI 2-Line WAN w/Modem NoIOP	6833	585	Yes
1/4-way i Edition	7006	0	Yes
2/4-way i Solution Edition	7046	0	Yes
4/4-way i Solution Edition	7048	0	Yes
Intelligent PDU Plus	7109	1,455	Yes
Power Distribution Unit	7188	1,000	Yes

Quantity 150 of #2124	7204	18,750	Yes
Quantity 150 of #2125	7205	21,000	Yes
Quantity 150 of #2126	7206	23,250	Yes
Quantity 150 of #2127	7207	31,500	Yes
Quantity 150 of #2128	7208	49,500	Yes
Quantity 150 of #1299	7211	239,850	Yes
Quantity 150 of #2138	7213	11,250	Yes
Model 550 Deskside Specify	7226	0	Yes
IBM Front Door 550 Deskside	7227	750	Yes
Model 550 Rack-mount Specify	7229	0	Yes
Quantity 150 of #1292	7262	226,500	Yes
Bezel/Hdwr 550 Rack Mt Drwr	7268	750	Yes
Dual I/O Unit Enclosure	7307	417	Yes
Dual I/O Unit Enclosure	7311	417	Yes
Dual 5796 Unit Enclosure	7314	525	Yes
Quantity 150 of #4319	7504	112,500	Yes
Quantity 150 of #4326	7508	179,850	Yes
Quantity 150 of #4327	7509	149,850	Yes
Quantity 150 of #4328	7510	194,850	Yes
Quantity 150 of #4329	7511	419,850	Yes
Quantity 150 of #0300	7512	0	Yes
Quantity 150 of #0301	7513	0	Yes
Quantity 150 of #5741	7514	74,850	Yes
Quantity 150 of #5742	7515	149,700	Yes
Quantity 150 of #1269	7516	419,850	Yes
Quantity 150 of #1266	7520	179,850	Yes
Quantity 150 of #1267	7521	149,850	Yes
Quantity 150 of #1268	7522	194,850	Yes
Quantity 150 of #1294	7525	89,850	Yes
Quantity 150 of #1295	7526	104,850	Yes
Quantity 150 of #1296	7527	89,850	Yes
Quantity 150 of #1297	7528	98,850	Yes
Quantity 150 of #1298	7529	194,850	Yes
AUTO-DOCK AC POWER SUPPLY, 1	7707	699	Yes
2.0m Rack Side Attach Kit	7780	150	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
PowerVM Standard Edition	7982	0	Yes
PowerVM Enterprise Edition	7986	0	Yes
15-Ft Cluster Box Cable	8131	50	Yes
9-Inch Cluster Box Cable	8132	33	Yes
RJ45 to DB25 Interposer	8133	100	Yes
3.5-inch SAS DASD Cage	8345	560	Yes
Opt Base 1GB Server Memory	8546	730	Yes
Full 5250 Enterprise Enable	9298	0	Yes
Base 5250 Enterprise Enable	9299	0	Yes

Type/Model conversions

From Type	To Model	Parts returned	Purchase price
9406	550	9409 M50	Yes \$5,509

Conversions

Feature conversions

From	To	Parts returned	Purchase price
2744	0603	No	\$ 0
2742	0613	No	0
6805	0613	No	0
2793	0614	No	0
6803	0614	No	0

6833	0614	No	0
9493	0614	No	0
9793	0614	No	0
2805	0616	No	0
6808	0616	No	0
5700	0620	No	0
6800	0620	No	0
5701	0621	No	0
6801	0621	No	0
5702	0624	No	0
5704	0625	No	0
2787	0626	No	0
5783	0630	No	0
5784	0631	No	0
5712	0645	No	0
5736	0647	No	0
5775	0647	No	0
4326	1266	No	0
4327	1267	No	0
4328	1268	No	0
4329	1269	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
0613	2742	No	0
6805	2742	No	0
0603	2744	No	0
0627	2780	No	0
0626	2787	No	0
0614	2793	No	0
6803	2793	No	0
9493	2793	No	0
9793	2793	No	0
0616	2805	No	0
6808	2805	No	0
1299	3578	No	0
1266	4326	No	0
1267	4327	No	0
1268	4328	No	0
1269	4329	No	0
4813	4812	No	0
9813	4812	No	0
0910	4920	Yes	0
0915	4920	Yes	0
8312	4966	Yes	16, 092
8958	4966	Yes	16, 092
7323	4986	No	7, 573
7871	4986	No	7, 573
8413	4986	No	7, 573
8450	4986	No	7, 573
7257	4998	No	0
7576	4998	No	0
9286	4998	No	0
9299	4998	No	0
5096	5094	No	3, 000
5296	5294	No	24, 500
0649	5582	No	50
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
0649	5583	No	0
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
0641	5590	No	0
2780	5590	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
0650	5739	No	0
0651	5739	No	0
5778	5739	No	0
5781	5739	No	0
5782	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
0649	5777	No	0
2757	5777	Yes	5, 200
2780	5777	Yes	4, 200
5738	5777	No	0
0650	5778	No	0
0651	5778	No	0
5739	5778	No	0
5781	5778	No	0
5782	5778	No	0
0650	5781	No	50
0651	5781	No	0
5739	5781	No	50
5778	5781	No	50
5782	5781	No	0
0650	5782	No	50
0651	5782	No	0
5739	5782	No	50
5778	5782	No	50
5781	5782	No	0
0630	5783	No	0
0631	5784	No	0
0620	6800	No	0
5700	6800	No	0
0621	6801	No	0
5701	6801	No	0
0613	6805	No	0
2742	6805	No	0
0616	6808	No	0
2805	6808	No	0
0614	6833	No	0
2793	6833	No	0
6803	6833	No	0

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