

# IBM RS/6000 Model J50 — the New Deskside Model with 604e PowerPC Processor

## Overview

The RS/6000\* Model J50 PowerPC® Server continues the evolution of the J30 and J40 deskside family of systems with improved performance and expandability. These mid-range deskside systems are very reliable, highly scalable, and readily expandable —qualities crucial for today's business and technical environments.

The Model J50 is a scalable symmetric multiprocessing (SMP) system offered in configurations starting with two processors and expandable up to an 8-way system. You can also add four 1GB memory cards to scale the J50's memory to 4GB. The J50 combines the performance of the 604e 200MHz PowerPC processor with 2MB L2 cache per processor, resulting in substantially higher performance compared to predecessor systems. The deskside packaging supports five hot-pluggable disk bays, three media bays, and six available Micro Channel® I/O slots.

Installed Model J30 or J40 systems can be upgraded to the Model J50 to obtain the superior processing power of the 200MHz 604e dual processors.

In addition to the SCSI interfaces, the Model J50 supports the Serial Storage Architecture (SSA) storage interfaces. SSA disks deliver outstanding performance for transaction-intensive applications and offer redundancy features to keep your data safe.

#### **Intended Customers**

The Model J50 provides for outstanding price/performance as a follow-on to the Model J40 SMP commercial server. The Model J50 also provides a migration path for customers who currently have a Model J30/J40 machine installed.

## **Key Prerequisites**

AIX® Version 4.1.5 (5765-C34) or a later modification level of AIX Version 4.1 for Servers.

or

AIX Version 4.2.1 (5765-C34) or a later modification level of AIX Version 4.2. for Servers.

Price: \$54,000 (7013-J50)

## **Planned Availability Dates**

- April 30, 1997, for the Model J50
- June 27, 1997, for 10/100 Mbps Ethernet TP MCA Adapter feature (#2994)
- June 27, 1997, for feature MESs
- June 27, 1997, for model upgrades
- July 25, 1997, for ISDN feature (#2707) on the initial system order and MESs

## At a Glance

- Up to 8-way 604e 200MHz system scalability
  - Packaged on four processor cards (two of the 604e processors per card)
  - Each processor card includes 2MB of L2 cache per processor (double the previous offerings)
- Support for up to 4GB of main memory (double the previous offerings)
- · Investment protection
  - Upgrades offered from J30, J40, and most 500 series models
- Enhanced base system
  - 256MB base memory
  - AIX for Servers license included
- System compatibility: support for AIX Versions 4.1.5 and 4.2.1
- Supports SCSI and SSA interfaces
- 9.1GB hot-pluggable disk drive support

For ordering, contact:

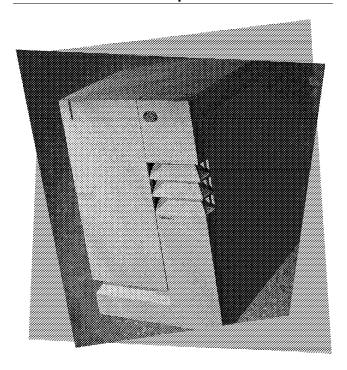
Your IBM representative, an IBM Business Partner, or IBM North America Sales Call Center at

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Reference: RE010

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## **Description**



#### **RS/6000™ Model J50**

The RS/6000 Model J50 PowerPC Server offers a powerful PowerPC Architecture™ in a deskside model with new price and price performance points.

#### Features include:

- PowerPC 604e processors running at 200MHz
- 32KB/data and 32KB/instruction of L1 cache, 2MB L2 cache per processor
- 256MB to 4GB main memory
- 4.5GB to 63GB internal disk capacity, up to 149GB (Hot Plug) with J01 Expansion Cabinet
- SCSI-2 Enhanced Fast/Wide Differential adapter
- Six Micro Channel expansion slots available
- One standard 3.5-inch, 1.44MB internal disk drive
- One standard CD-ROM
- · Three serial ports
- One parallel port
- SystemGuard service processor that allows remote operation of the system
- Compatible with the RS/6000 family and the AIX/6000® for RS/6000 operating system

**Note:** MB is 1,048,576 bytes (two to the twentieth power) when referring to memory; in all other cases, it is 1,000,000 (ten to the sixth power). GB is 1,073,741,824 bytes (two to the thirtieth power) when referring to memory; in all other cases, it is 1,000,000,000 (ten to the ninth power).

#### SMP Technology

**Design:** The RS/6000's SMP design incorporates multiple PowerPC processors sharing a single common memory and a single copy of the AIX Version 4.1.5 or 4.2.1 for Servers operating system. Jobs are scheduled across the processors, allowing separate processes to be run simultaneously. Data and instructions are accessed from the shared memory, through a high-speed cache to the processors. This design with a coherent cache allows programs to exploit the parallelism provided by the multiple processors.

**Design Requirements:** A multiprocessor system must satisfy several design requirements when compared to a uniprocessor system. They must:

- Provide for scheduling of separate jobs across the various processors
- Provide for synchronization of those separate jobs
- Provide efficient paths between each processor and the memory subsystem
- Manage the processor caches to maintain cache coherency (consistency)
- Provide an input/output interface to the memory subsystem

Several additional requirements are placed on the design by the unique characteristics of commercial applications. The key to delivering good commercial performance is not a factor solely of the processor, but rather of the memory hierarchy and the ability to do rapid cache-to-cache transfers. Typically, commercial applications exhibit data access patterns with a large footprint. This is very different from scientific or technical workloads. Commercial workloads are characterized by high L1/L2 cache miss rates, heavy memory traffic, and high cache migration rates. As data traffic increases due to the large footprint of commercial workloads, it is evident that the memory bus is potentially a bottleneck. It is, therefore, critical to performance that the SMP system be designed to handle these applications.

**Design Fulfillment:** The RS/6000 SMP models have the following major attributes:

- The operating system has the ability to schedule and synchronize work across the available processors.
- A high-bandwidth (800 MBps) bus is provided for access between cache and memory.
- Cache and memory are efficiently managed to maintain cache consistency.

The design of the IBM SMP Servers helps increase performance as follows:

- The program elements most recently used or projected to be used are kept in L1 cache (fastest access).
- Programs and control objects are kept in L2 cache (next fastest).
- Directories to databases are kept in memory (next fastest to L2 cache).
- Actual databases are stored on disk drives.

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IBM's new generation of servers provides efficient paths between processors and memory and efficiently manages the processor caches to maintain cache coherency. A distributed directory "snoop" mechanism is used to maintain cache coherency. The traditional memory bus is still present, but it only carries address tags. A non-blocking cross-bar switch is added to the design, which carries the data between cache and memory or cache and cache. A four-deep pipelined snoop procedure is used to help provide outstanding concurrency in memory and cache operations and operates with the data cross-bar. The design allows operations to take place in a single memory-read cycle, which in other SMP designs will take two or three such cycles.

### Reliability, Availability, and Serviceability (RAS)

IBM continues to apply RAS experience to the RS/6000 Servers from many decades of building mission-critical mainframe computers. RAS characteristics such as error detection, fault tolerance, reliable hardware components, high availability, fault management, concurrent or online diagnostics, which were once available only on mainframe computers, are now implemented in SMP RS/6000 Servers.

RAS is an integral part of the SMP RS/6000 and AIX Version 4 design philosophy. But RAS doesn't stop there, RAS affects the way that IBM can offer service on SMP RS/6000 products to keep systems operational. In IBM, RAS is integrated into all aspects of hardware design, programming support, manufacturing quality, application system design, service, and service support. Its purpose is to help assure that the IBM product is:

- · Operational when you need it
- · Reliably performing the job
- Handling the occasional failure in a nondisruptive fashion
- · Repaired quickly and competently
- Allowed resumption of operations with a minimum of inconvenience

#### Reliability, Fault Tolerance, and Data Integrity

 Reliability and availability are key concerns for any commercial system. In a widely distributed environment, this becomes more critical. To address this, the IBM product design provides remote and local control. The IBM SMP Servers include features such as IBM SystemGuard, an imbedded service processor, which will enable remote operation of the system, remote power-on/power-off, running of diagnostics, and console support and processor reconfiguration in case of errors.

The support processor is continuously powered, even when system power is off. The mirrored console support means that remote service actions are visible and controlled by the customer. This includes control over whether the system can be remotely rebooted. An additional feature is that the system can be set to dial a remote service or support point should the system fail, and a surveillance function allows the system to detect "hang" conditions in the system and, if necessary, invoke a rapid reboot.

The AIX Version 4 for Servers operating system also contributes to reliability and serviceability. Features such as the Logical Volume Manager (LVM), Journaled File System (JFS), and dynamic kernel all contribute to a reliable and robust operating system implementation.

- The reliability of SMP RS/6000 systems starts with testing components, devices, and subsystems. During the design and development process, all subsystems go through a rigorous verification and integration testing process. During system manufacturing, all systems go through testing and a "system run-in" process to help ensure that any potential early-life hardware failures are detected and removed in the factory.
- In addition to the support processor, the error-checking and correction circuitry protecting memory is able to detect and correct most single-bit failures. Double-bit errors and package failures (such as could be caused by a chip failure) can also be detected and invoke auto reboot.
- Disk mirroring and disk controller duplexing capability are also provided by AIX.
- JFS maintains file system consistency and prevents data loss when the system is abnormally halted.

## Availability and Fault Management

#### Fault Prevention

 Power-on test checks processors, memory, and associated hardware — required for proper booting of the operating system — every time the server is powered on.

#### Fault Monitoring

- IBM's family of SMP RS/6000 system servers includes a service processor called SystemGuard, as a standard feature. SystemGuard continually monitors the hardware and the operating system. If, for instance, a CPU fails, the service processor is designed to detect this, reboot itself automatically, and run without the failed CPU. Likewise, if a memory error is found that can be corrected, the service processor is designed to detect this, reboot itself automatically, and run without the bad memory component.
- Temperature monitoring provides orderly system shutdown when operating temperature exceeds the critical level.
- · Fan speed monitoring.
- DC voltage monitoring provides orderly system shutdown when DC voltages are out of operational specifications.
- AC power loss sensing provides orderly system shutdown.
- Disk fault tracking alerts the system administrator of an impending disk failure before it impacts customer operation.
- AIX log facility, where hardware and software failures are recorded and analyzed (by Error Log Analysis (ELA) routine), provides warnings to the system administrator on the causes of system problems. This also enables IBM service representatives to bring along needed replacement hardware components when a service call is placed, minimizing system repair time.

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#### Availability Enhancement

- The J50 SMP allows hot-plugging of new disks or the removal of disks on the system. This means that the addition of new disks will not require power to be turned off, and the dynamic nature of the AIX Version 4.1.5 or 4.2.1 operating system for servers allows many new subsystems to be configured without a boot.
- Online (concurrent) Diagnostics with Error Log Analysis and Service Aids allow administrators or IBM service representatives to diagnose potential system malfunctions without interrupting end-user operation.
- Auto-restart option automatically reboots the system following an unrecoverable software error.
- Automatically reboots the system following a software hang, hardware failure, or environmental-induced (thermal or power) failure.

**High Availability:** HACMP configuration provides a high-availability solution that protects end users from most hardware and software system failures.

#### Serviceability

- The IBM SMP RS/6000 system servers have been built to be easily upgraded. The packaging is designed to permit convenient replacement or upgrading of processor, memory, or I/O adapters. For example, the processors are contained on dual-processor cards. To upgrade from a two-way to a four-way system is merely a matter of plugging in an additional dual-processor card.
- SystemGuard allows diagnostics and maintenance to be performed either locally or remotely. This is especially important to customers who may not have personnel with computer skills at the remote sites. The SystemGuard processor makes it possible for the system to be managed from a central location. The SMP RS/6000 servers can even be set up to automatically call an IBM Service Support Center if they fail to boot successfully.

With SystemGuard, support personnel can remotely log-in to a system to review error logs, perform remote maintenance, and remotely reset, boot, and diagnose the system via a phone line.

In addition, the SystemGuard processor operates on its own power boundary, making it possible to work on the system even if the system is powered off.

SystemGuard's main features are:

- Initialization process flow management
- Local and remote control of the system (power-on/off, diagnostics, reconfiguration, and maintenance)
- Console mirroring to make remote actions visible and controllable by the customer
- Dial-out to a customer's central site or IBM support center in case of system boot failure
- Run-Time Surveillance
- SystemGuard controls the power-on test and the loading of AIX and runs the programs used from the STANDBY and MAINTENANCE MENUs.
- Off-line test under the control of the MAINTENANCE MENU enables the servicer or the remote center to run the off-line test in a controlled and interactive mode.

- The diagnostics consist of stand-alone and online diagnostics.
  - Stand-alone diagnostics are resident on removable media. They must be booted or mounted before they can be run. If booted, they have no access to the AIX Error Log or the AIX Configuration Data. However, if mounted, they have access to the AIX Error Log or the AIX Configuration Data.
  - Online diagnostics, when installed, are resident with AIX on the disk or server. They can be booted in single-user mode (referred to as service mode), run in maintenance mode (referred to as maintenance mode), or run concurrently (referred to as concurrent mode) with other applications. They have access to the AIX Error Log and the AIX Configuration Data.
    - -- Service mode allows checking of all the system devices and features.
    - Concurrent mode allows the normal system functions to continue while selected resources are being checked.
    - -- Maintenance mode allows checking of most system resources.

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# IBM US Announcement Supplemental Information

April 15, 1997

## World-Class Technical Service and Support

The SMP RS/ $6000^{TM}$  system servers come with IBM world-class technical service and support.

Service Director® /6000: This program is provided at no additional charge for customers who are currently under warranty or have an IBM Maintenance Agreement.

Service Director/6000 can provide increased system availability through remote maintenance information reporting. System errors are dynamically monitored and analyzed. If the situation warrants it, the system may automatically place a service call to IBM without any customer intervention being required. Service Director/6000 is an account management application for use by the IBM service provider.

Service Director/6000 for RS/6000 is an IBM-exclusive software application that features:

- · Automatic problem analysis
- · Problem isolation information
- · Structured view of hardware events logged
- Statistics of Service Director/6000 for RISC System identified problem
- Automatic initiation of service requests to IBM (with customer authorization)

Online Customer Support: Online Customer Support for hardware problem reporting can be performed via remote login by Remote Support Center (RSC) specialists using normal AIX® facilities, or by the Service Director/6000 for RS/6000 software.

AIX support offerings are available under the AIX SupportLine Family of Services and Service Director/6000 for RS/6000.

**Scalability:** Scalability is also a key design consideration. The J30 and J40 SMP Servers have been built to be easily upgraded.

For example, the processors are contained on dual-processor cards. To upgrade from a two-way to a four-way system is merely a matter of plugging in an additional dual-processor card.

Another aspect of scalability is the I/O subsystem. The J50 SMP allows hot-plugging of new disks onto the system. This means that the addition of new disks will not require the power to be turned off, and the dynamic nature of the AIX Version 4.1.5 or 4.2.1 for Servers operating system allows many new subsystems to be configured without a boot.

## **Technical Description**

**Model Description 7013-J50:** The RS/6000 Model J50 PowerPC® Server has:

- PowerPC capabilities and upgradeability that offer new levels of performance, support for future implementations, and attractive prices
- System capacity that sets a standard in its price class for expandability
- System reliability that sets a standard in its price class, with a service processor that protects your business data
- Protection for your investment in hardware, software, applications, and training

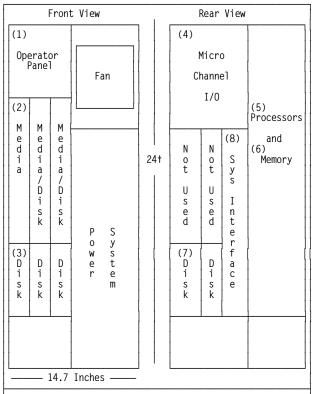
Selected models of the RS/6000 500 Series can be upgraded to the J50. The upgraded system will have the same serial number as the predecessor system.

#### Standard Features

- One dual, 604e 200MHz PowerPC Processor card (two-way)
  - Three available processor slots for expansion
- 32KB/data and 32KB/instruction of L1 cache, 2MB L2 cache per processor
- 256MB memory card
  - 256MB DIMM Kits (optional)
  - Maximum memory 4GB
- 80 MBps 32-bit Micro Channel® Architecture
  - Seven Micro Channel bus expansion slots
  - Six slots available
- SCSI-2 Enhanced Fast/Wide Differential Adapter
  - Supports internal 8-bit and 16-bit SCSI devices
  - Occupies one Micro Channel slot
- Five hot-pluggable disk bays
  - One 4.5GB SCSI-2 internal disk
- Three media bays
  - CD-ROM tray loading (standard)
  - Two media bays or optional disk bays (conversion hardware required for use as a disk bay)
- Operator panel with 1.44MB, 3.5-inch diskette drive
- · Three serial ports and one parallel port

This announcement is provided for your information only. For additional information, contact your IBM representative or call 800-IBM-4YOU.

## Configuration of J50



(1) Operator Panel Feature number 9221 (1.44MB Diskette Drive) no select options

(2) Media Devices (three maximum) Feature number 9607 (CD-ROM 8X)

Optional media: Feature number 2621 (CD-ROM 8X),

feature number 6138 (8-mm tape), feature number 6139 (4-mm tape)

Optional disk (requires feature number 6511): Feature number 3001 (4.5GB), feature number 3011 (9.1GB)

(3) Disk Devices/front (five maximum — three minimum)
Feature number 9138 (4.5GB) or select to
Feature number 3012 (9.1GB)

Optional disk:

Feature number 3001 (4.5GB), feature number 3011 (9.1GB) (4) Micro Channel board (seven expansion slots, six available)

Feature number 9212 (SCSI-2 F/W Differential) and feature number 9441 (SCSI Cable to backplane) Optional adapters: (refer to matrix)

(5) Processors Feature number 9402 (2-Way 604e Processor Card)

Additional: Feature number 4324 (2-Way 604e Processor Card) (6) Memory

Feature number 9165 (256MB System Memory on 1GB Card) or select to feature number 4162 (1GB)

Feature number 4166 (256MB DIMM Kit), feature number 4165 (256MB System Memory on 1GB 1GB Card),

feature number 4156 (128MB System Memory) (7) Disk Devices/rear: Two maximum, requires feature

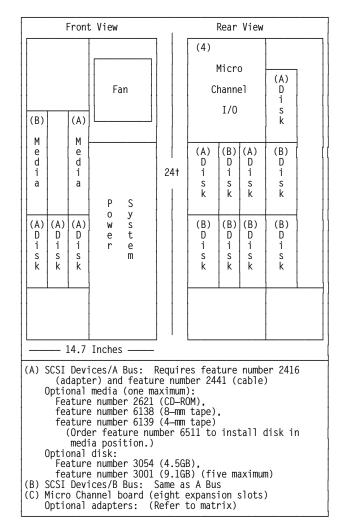
number 2416 (adapter) and feature number 2441 (cable) Optional disk:

Feature number 3001 (4.5GB), feature number 3011 (9.1GB), can only be installed in the bottom two bays

(8) I/O Panel Three serial ports, one parallel port, two SCSI backplane input connectors

The RS/6000 J01 Expansion Cabinet allows additional expansion capability by providing eight Micro Channel Bus expansion slots and 12 hot-pluggable disk bays and two hot-pluggable media bays. The two media bays can be converted to hot-pluggable disk bays. One J01 can be attached per J50.

The J01 Expansion Cabinet attaches to the left side of the J50 processor. The power interface cable and Micro Channel expansion cable are provided with the Model J01.



#### **Feature Matrix**

The following feature availability for MT 7013 uses the letter "A" to indicate features that are available and orderable on the specified models. "S" indicates a feature that is supported on the new model during a model conversion; these features will work on the new model, but additional quantities of these features cannot be ordered on the new model; they can only be removed. "N" indicates that the feature is not supported on the new model and must be removed during the model conversion. As additional features are announced, supported, or withdrawn, this list will be updated. Check with your IBM representative for additional information.

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	П	
	5 0	A = Available S = Supported N = Not supported, must be removed
Feature Number		Description
0986	A	CCS Customer Service Specify (U.S.)
1000	S	Order Validation Specify Code Non-Locking Switch
1110	Ä	Keyboard — U.S. English Soft Touch
1902	N	(U.S./Canada Only) Optics Daughter Card, 1—Port, 1,063 Mbps, Short Wave
1904	N	Star Fiber Channel MCA Adapter, Mother Card
1906	N N	Fiber Channel Adapter/266 540MB SCSI-2 Disk Drive
2391	N N	400MB to 540MB SCSI-2 Disk Drive Select M-Video Capture Adapter (NTSC)
2402	A	IBM Network Terminal Accelerator — 256 Session
2403	A	250 Session IBM Network Terminal Accelerator — 2,048 Session
2404 2405	N N	IBM Ultimedia (R) Video I/O Adapter IBM Ultimedia Video Compression/Decompression
2410	s	Card SCSI—2 High—Performance External I/O
2412	A	Controller Enhanced SCSI-2 Differential Fast/Wide
2413	S	Adapter/A IBM SCSI-2 Differential Fast/Wide Adapter/A
	1	Select
2414	S	IBM SCSI-2 Fast/Wide Adapter/A Select IBM SCSI-2 Fast/Wide Adapter/A
2416 2417	A S	IBM SCSI-2 Differential Fast/Wide Adapter/A IBM SCSI-2 Differential Fast/Wide Adapter/A
2418	S	Select Enhanced SCSI-2 Differential Fast/Wide Adapter/A Select
2419	S	Enhanced SCSI-2 Differential Fast/Wide
2420	S	Adapter/A Select SCSI-2 Differential High-Performance External
2422	A	I/O Controller SCSI—2 Differential Y—Cable
2423	A	SCSI-2 Differential System-to-System Cable 0.6 m 16-bit SCSI-2 System-to-System Cable
2425	A	0.6 m 16-bit SCSI-2 System-to-System Cable 2.5 m 16-bit SCSI-2 System-to-System Cable 16-bit Y-Cable for IBM SCSI-2 Differential
	1 1	Fast/Wide Adapter/A
2427	A	8-bit Y-Cable for IBM SCSI-2 Differential Fast/Wide Adapter/A
2428	[N]	8-bit Internal 6-Drop Cable for IBM SCSI-2 Fast/Wide Adapters Select
2429	N	16-bit Internal 6-Drop Cable for IBM SCSI-2 Fast/Wide Adapters Select
2430	N	8-bit Internal 6-Drop Cable for IBM SCSI-2 Fast/Wide Adapters
2431	N	16-bit Internal 6-Drop Cable for IBM SCSI-2
2433	N	Fast/Wide Adapters 16-bit Internal 6-Drop Cable for IBM SCSI-2
2435	A	Fast/Wide Adapters Select 16_bit IBM SCSI-2 Fast/Wide Adapter/A to
2436	A	Dual-Ported Device Cable 16-bit IBM SCSI-2 Differential Fast/Wide
2437	A]	Adapter/A to Dual-Ported Device Cable 8-bit_IBM SCSI-2 Fast/Wide Adapter/A to
2438	A	Dual-Ported Device Cable 8-bit IBM SCSI-2 Differential Fast/Wide
2439	A	Adapter/A to Dual-Ported Device Cable 8-bit IBM SCSI-2 Fast/Wide Adapter/A to
2441	A	Single—Ported Device Cable SCSI Cable to Internal Devices
2500 2510	N	355MB SCSI Disk Drive 670MB SCSI Disk Drive
2511	N	355MB to 670MB SCSI Disk Drive Select
2529 2530	N N	400MB to 857MB SCSI Disk Drive Select 857MB SCSI Disk Drive
2531 2532	N N	355MB to 857MB SCSI Disk Drive Select 640MB to 857MB SCSI Disk Drive Select
2534	N	800MB to 857MB SCSI Disk Drive Select
2542 2543	N N	640MB SCSI Disk Drive Pair 355MB to 640MB SCSI Disk Drive Pair Select
2550 2551	N N	1GB SCSI Disk Drive 400MB to 1GB SCSI Disk Drive Select
2552 2555	N	800MB to 2GB SCSI Disk Drive Pair Select 1GB SCSI-2 Disk Drive
2556	S	400MB to 1GB SCSI-2 Disk Drive Select
2557 2560	S	800MB to 2GB SCSI-2 Disk Drive Pair Select 400MB SCSI Disk Drive
2562	N	800MB SCSI Disk Drive Pair

	j	A = Available S = Supported
Feature	5	N = Not supported, must be removed
Number		Description
2567 2570	S N	2GB to 2X1GB Disk Drive Select 1.37GB SCSI Disk Drive
2572 2574	N N	400MB to 1.37GB SCSI Disk Drive Select 800MB to 1.37GB SCSI Disk Drive Select
2580 2583	S S	2GB SCSI-2 Disk Drive 1GB to 2GB SCSI-2 Disk Drive Select
2585 2586	S	800MB to 2GB SCSI-2 Disk Drive Select 2GB SCSI-2 Fast/Wide Disk Drive
2587	S	2GB to 2GB SCSI-2 Fast/Wide Disk Drive Select 1GB to 2GB SCSI-2 Fast/Wide Disk Drive Select
2590 2592 2593	N N	2.4GB SCSI-2 Disk Drive 400MB to 2.4GB SCSI-2 Disk Drive Select 670MB to 2.4GB SCSI-2 Disk Drive Select
2594 2598	N N N	2.0GB to 2.4GB SCSI-2 Disk Drive Select 2GB to 2.4GB SCSI-2 Disk Drive Select
2600 2602	S	Internal CD-ROM to CD-ROM-2 Select
2603 2604	S	Internal CD_ROM_2 600MB SCSI_2 Double_Speed Tray_Loading CD_ROM
2607 2608	S	Internal Caddy-Loading CD-ROM Module Select Internal Caddy-Loading CD-ROM Module
2609 2613	S	600MB SCSI-2 Double-Speed Tray-Loading CD-ROM 600MB SCSI-2 Double-Speed Tray-Loading CD-ROM
2614	s	Select 600MB SCSI-2 Double-Speed Tray-Loading CD-ROM
2615	N	Select External 5.25—Inch Diskette Drive Attachment Cable
2616 2617	S	Quad-Speed Tray-Loading CD-ROM Tray-Loading CD-ROM Select
2618 2621	S	8X Speed Tray-Loading CD-ROM Tray-Loading CD-ROM Module
2630 2632	S S	Internal 1.2GB 1/4—Inch Cartridge Tape Drive Internal 1.2GB 1/4—Inch Cartridge Tape Drive
2650 2700	A	Module POWER GXT150M (TM) Graphics Adapter 4—Port Multiprotocol Communications Controller
2702 2704	A	Multiprotocol Attachment Cable — V.35 Multiprotocol Attachment Cable — X.21
2705 2706	A	4-Port Multiprotocol Interface Cable Multiprotocol Modem Attachment Cable —
2707 2711	A N	EIA-232/V.24 ISDN, Basic Rate I/F, MCA POWER Gt4xi (TM) 8-bit Graphics Adapter
2712	N N	POWER Gt4xi (TM) 0-bit Graphics Adapter POWER Gt4xi (TM) 24-bit Graphics Adapter
2720	S	Fiber Distributed Data Interface Single-Ring Adapter
2722	S	Fiber Distributed Data Interface Dual-Ring Upgrade Kit
2723	A	FDDI-Fiber Dual-Ring Upgrade FDDI-Fiber Single-Ring Adapter
2725	A	FDDI-STP Single-Ring Adapter FDDI-STP Dual-Ring Upgrade
2734	Ņ	Keyboard/Mouse Attachment Card High-Performance Parallel Interface Adapter
2754 2755	A A A	S/390 (R) ESCON (R) Channel Emulator Block Multiplexer Channel Adapter ESCON Control Unit Adapter
2756   2757   2758	A	Block Multiplexer Channel Adapter Cable Block Multiplexer Channel Cable Assembly
2759 2760	A	System/370 (TM) Channel Emulator/A Grayscale Graphics Display Adapter
2768 2770	N	POWER Gt3i (TM> Color Graphics Display Adapter
2776 2777	N N	POWER Gt4e (TM) POWER Gt3 (TM)
2780	N	High-Performance 8-bit 3D Color Graphics Processor
2781	N	High-Performance 24-bit 3D Color Graphics Processor 24 bit 7 Puffor Solid Bondoning Option
2782 2783 2790	N N N	24—bit Z—Buffer Solid Rendering Option 24—bit Color Graphics Frame Buffer Upgrade POWER Gt4x (TM) 8—bit Feature
2790 2791 2792	N N	POWER Gt4x 24—bit Feature POWER Gt4 (1M) 8—bit to 24—bit Upgrade
2794 2795	N N	POWER Gt4 Performance Upgrade POWER Gt4 8-bit Feature
2796 2800	N N	POWER Gt4 24-bit Feature System/370 Host Interface Adapter
2801 2802	N N	5086 Attachment Adapter 5085 Attachment Adapter

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Reature Number  Description  2810  N Graphics Input Device Adapter 7250 Attachment Adapter 2820  N 7250 Attachment Adapter 2831  S CSI-2-Hiph-Performance Internal I/O Controller 2832  A SCSI High-Performance Internal I/O Controller 2833  N Integrated SCSI Controller Cable 2836  SCSI High-Performance External I/O Controller 2836  SCSI High-Performance External I/O Controller 2836  N Scrial Optical Channel Converter Cable 2867  N Integrated SCSI Controller Cable 2868  N Serial Optical Channel Converter Cable 2869  R Gemeter Serial Optical Channel Converter Cable 2869  N Go meter Serial Optical Channel Converter Cable 2870  N 100 meter Serial Optical Channel Converter Cable 2871  N 201  S CSI-2 Passthrough Terminator Cable (50-Pin) 2872  S CSI-2 Passthrough Terminator Cable (60-Pin) 2873  S CSI-2 Passthrough Terminator Cable (60-Pin) 2874  S CSI-2 Passthrough Terminator Cable (60-Pin) 2875  S CSI-2 Passthrough Terminator Cable (60-Pin) 2876  S CSI-2 Passthrough Terminator Cable (60-Pin) 2877  A Cable Option ELA-232 2872  A Cable Option ELA-230 2873  A Cable Option ELA-230 2874  A KATIC960 Coprocessor (4MB)  A Cable Option ISO 4903 X.21 2875  A KATIC960 Coprocessor (8MB) 2876  A ASYNchronous Terminal Printer Cable EIA-232 2873  A ARTIC960 Coprocessor, 8-Port EIA-232 2873  A ARTIC960 Coprocessor, 8-Port EIA-232 2873  A ARTIC960 Coprocessor, 8-Port X.21 2873  A ARTIC960 Coprocessor, 8-Port X.21 2874  A ASYNchronous Sadpter — EIA-232 2875  A ARTIC960 Coprocessor, 8-Port X.21 2876  A ARTIC960 Coprocessor, 8-Port X.21 2877  A RATIC960 Coprocessor (8MB) 2878  A ARTIC960 Coprocessor (8MB) 2879  A ARTIC960 Coprocessor (8MB) 2879  A ARTIC960 Coprocessor (8MB) 2870  A ARTIC960 Copr		J 5	A = Available S = Supported N = Not supported, must be removed
Number   Description	F		N - Not supported, mast be removed
2811 N Graphics Input Device Cable 2820 N 7250 Attachment Adapter 2821 S SCS1-2 High-Performance Internal I/O 2822 A SCS1-2 High-Performance Internal I/O 2823 A SCS1-2 High-Performance External I/O 2836 Controller 2837 N Integrated SCSI Controller Cable 2838 A SCSI-2 Controller Cable 2839 N External I/O Controller 2860 N Serial Optical Channel Converter 2860 N Serial Optical Channel Converter 2861 N Serial Optical Channel Converter 2862 N O meter Serial Optical Channel Converter 2863 N O meter Serial Optical Channel Converter 2864 N O meter Serial Optical Channel Converter 2865 N O meter Serial Optical Channel Converter 2866 N O meter Serial Optical Channel Converter 2867 N O meter Serial Optical Channel Converter 2868 N O meter Serial Optical Channel Converter 2870 N O meter Serial Optical Channel Converter 2871 N O meter Serial Optical Channel Converter 2872 N O Meter Serial Optical Channel Converter 2873 N O Meter Serial Optical Channel Converter 2874 N O Meter Serial Optical Channel Converter 2875 N O Meter Serial Optical Channel Converter 2876 N O Meter Serial Optical Channel Converter 2877 N O Meter Serial Optical Channel Converter 2878 N O Meter Serial Optical Channel Converter 2879 N O Meter Serial Optical Channel Converter 2870 N O Meter Serial Optical Channel Converter 2870 N O Meter Serial Optical Channel Converter 2871 N O Meter Serial Optical Channel Converter 2872 N O Meter Serial Optical Channel Converter 2873 N O Meter Serial Optical Channel Converter 2874 N O Meter Serial Optical Channel Converter 2875 N O Meter Serial Optical Channel Converter 2876 N O Meter Serial Optical Channel Converter 2877 N O Meter Serial Optical Channel Converter 2878 N O Meter Serial Optical Channel Converter 2878 N O Meter Serial Optical Channel Converter 2878 N O Meter Serial Optical Channel Converter 2879 N O Meter Serial Optical Channel Converter 2870 N O Meter Serial Optical Channel Cell 2871 N O Meter Serial Optical Channel Cell 2872 N O Meter Serial Optical Channel Cell 2873 N O Meter Serial Optical Channel Cel			Description
2829   N   7250 Attachment Adapter			
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2966 A X.25 Attachment Cable V.24 — 3 meter (10 ft) 2967 A X.25 Attachment Cable V.35 — 3 meter (10 ft) 2970 S Token-Ring High-Performance Network Adapter 2972 A IBM Auto Token-Ring LANStreamer (R) 32 MC Adapter 2976 A X.25 Attachment Cable X.21 — 6 meter (20 ft) 2977 A X.25 Attachment Cable V.24 — 6 meter (20 ft) 2978 A X.25 Attachment Cable V.35 — 6 meter (20 ft) 2980 S Ethernet High-Performance LAN Adapter 2984 S TURBOWAYS (TM) 100 ATM Adapter 2989 A TURBOWAYS 155 ATM Adapter 2990 A 3270 Connection Adapter — U.S. 2992 A Ethernet High Performance BNC MC Adapter 2993 A Ethernet High Performance BNC MC Adapter 2994 A IBM 10/100 Mbps Ethernet MC Adapter/SMP 2995 A Multiport Interface Cable 2996 A 16-Port Interface Cable — EIA-232 2997 A 16-Port Interface Cable — EIA-422-A 3000 S 4.56B SCSI-2 Fast/Wide 1-inch (25 mm) High Disk Drive 3001 A 4.56B SCSI-2 Fast/Wide Disk Drive Module 3003 S 4.56B SCSI-2 Fast/Wide Disk Drive Module 3014 A 9.16B SCSI-2 Fast/Wide Disk Drive Module 3015 S 9.16B SCSI-2 Fast/Wide Disk Drive Module 3016 SCSI-2 Fast/Wide Disk Drive Module 3017 S 9.16B SCSI-2 Fast/Wide Disk Drive Module 3018 S 9.16B SCSI-2 Fast/Wide Disk Drive Select 3019 S 9.16B SCSI-2 Fast/Wide Disk Drive Select 3010 S 9.16B SCSI-2 Fast/Wide Disk Drive Select 3011 S 9.16B SCSI-2 Fast/Wide Disk Drive Select 3012 S 9.16B SCSI-2 Fast/Wide Disk Drive Select			X.25 Attachment Cable X.21 — 3 meter (10 ft)
2970 S Token-Ring High-Performance Network Adapter 2972 A IBM Auto Token-Ring LANStreamer (R) 32			X.25 Attachment Cable V.24 — 3 meter (10 ft)
2972 A IBM Auto Token-Ring LANStreamer (R) 32  MC Adapter  2976 A X.25 Attachment Cable X.21 — 6 meter (20 ft)  2977 A X.25 Attachment Cable V.24 — 6 meter (20 ft)  2978 A X.25 Attachment Cable V.35 — 6 meter (20 ft)  2980 S Ethernet High-Performance LAN Adapter  2984 S TURBOWAYS (TM) 100 ATM Adapter  2989 A TURBOWAYS 155 ATM Adapter  2990 A 3270 Connection Adapter — U.S.  2992 A Ethernet High Performance BNC MC Adapter  2993 A Ethernet High Performance BNC MC Adapter  2994 A IBM 10/100 Mbps Ethernet MC Adapter  2995 A Multiport Interface Cable  2996 A 16-Port Interface Cable — EIA-232  2997 A 16-Port Interface Cable — EIA-422-A  3000 S 4.5GB SCSI-2 Fast/Wide 1-inch (25 mm)  High Disk Drive  3001 A 4.5GB SCSI-2 Fast/Wide Disk Drive Module  3003 S 9.1GB SCSI-2 Fast/Wide Disk Drive Module  3010 S 9.1GB SCSI-2 Fast/Wide Disk Drive Module  3011 A 9.1GB SCSI-2 Fast/Wide Disk Drive Module  Select  3013 S 9.1GB SCSI-2 Fast/Wide Disk Drive Module  Select  3015 S 9.1GB SCSI-2 Fast/Wide Disk Drive Module  Select  3016 S 9.1GB SCSI-2 Fast/Wide Disk Drive Select  3017 S 9.1GB SCSI-2 Fast/Wide Disk Drive Module  Select  3018 S 9.1GB SCSI-2 Fast/Wide Disk Drive Select  3019 S 9.1GB SCSI-2 Fast/Wide Disk Drive Select			Token-Ring High-Performance Network Adapter
2976			IBM Auto Token-Ring LANStreamer (R) 32
2980 S Ethernet High-Performance LAN Adapter 2984 S TURBOWAYS (TM) 100 ATM Adapter 2989 A TURBOWAYS 155 ATM Adapter 2990 A 3270 Connection Adapter — U.S. 2992 A Ethernet/FDX 10 Mbps TP/AUI MC Adapter 2993 A Ethernet High Performance BNC MC Adapter 2994 A IBM 10/100 Mbps Ethernet MC Adapter/SMP 2995 A Multiport Interface Cable — EIA-232 2996 A 16-Port Interface Cable — EIA-232 2997 A 16-Port Interface Cable — EIA-422-A 3000 S 4.5GB SCSI-2 Fast/Wide 1-inch (25 mm) High Disk Drive 3001 A 4.5GB SCSI-2 Fast/Wide Disk Drive Module 3003 S 4.5GB SCSI-2 Fast/Wide Disk Drive Module 3010 S 9.1GB SCSI-2 Fast/Wide Disk Drive Module 3011 A 9.1GB SCSI-2 Fast/Wide Disk Drive Module 3012 A 9.1GB SCSI-2 Fast/Wide Disk Drive Module 3013 S 9.1GB SCSI-2 Fast/Wide Disk Drive Module 3015 S 9.1GB SCSI-2 Fast/Wide Disk Drive Select			X.25 Attachment Cable X.21 — 6 meter (20 ft)
2980 S Ethernet High-Performance LAN Adapter 2984 S TURBOWAYS (TM) 100 ATM Adapter 2989 A TURBOWAYS 155 ATM Adapter 2990 A 3270 Connection Adapter — U.S. 2992 A Ethernet/FDX 10 Mbps TP/AUI MC Adapter 2993 A Ethernet High Performance BNC MC Adapter 2994 A IBM 10/100 Mbps Ethernet MC Adapter/SMP 2995 A Multiport Interface Cable — EIA-232 2996 A 16-Port Interface Cable — EIA-232 2997 A 16-Port Interface Cable — EIA-422-A 3000 S 4.5GB SCSI-2 Fast/Wide 1-inch (25 mm) High Disk Drive 3001 A 4.5GB SCSI-2 Fast/Wide Disk Drive Module 3003 S 4.5GB SCSI-2 Fast/Wide Disk Drive Module 3010 S 9.1GB SCSI-2 Fast/Wide Disk Drive Module 3011 A 9.1GB SCSI-2 Fast/Wide Disk Drive Module 3012 A 9.1GB SCSI-2 Fast/Wide Disk Drive Module 3013 S 9.1GB SCSI-2 Fast/Wide Disk Drive Select 3015 S 9.1GB SCSI-2 Fast/Wide Disk Drive Select	2977	A	X.25 Attachment Cable V.24 — 6 meter (20 ft)
2984 S TURBOWAYS (TM) 100 ATM Adapter 2989 A TURBOWAYS 155 ATM Adapter 2990 A 3270 Connection Adapter — U.S. 2992 A Ethernet/FDX 10 Mbps TP/AUI MC Adapter 2993 A Ethernet High Performance BNC MC Adapter 2994 A IBM 10/100 Mbps Ethernet MC Adapter/SMP 2995 A Multiport Interface Cable 2996 A 16-Port Interface Cable — EIA-232 2997 A 16-Port Interface Cable — EIA-422-A 3000 S 4.5GB SCSI-2 Fast/Wide 1-inch (25 mm) High Disk Drive 3001 A 4.5GB SCSI-2 Fast/Wide Disk Drive Module 3003 S 4.5GB SCSI-2 Fast/Wide 1-inch (25 mm) High Disk Drive Select 3010 S 9.1GB SCSI-2 Fast/Wide Disk Drive Module 3011 A 9.1GB SCSI-2 Fast/Wide Disk Drive Module 3012 A 9.1GB SCSI-2 Fast/Wide Disk Drive Module 3013 S 9.1GB SCSI-2 Fast/Wide Disk Drive Select 3015 S 9.1GB SCSI-2 Fast/Wide Disk Drive Select			Ethernet High-Performance LAN Adapter
2990 A 3270 Connection Adapter — U.S. 2992 A Ethernet/FDX 10 Mbps TP/AUI MC Adapter 2993 A Ethernet High Performance BNC MC Adapter 2994 A IBM 10/100 Mbps Ethernet MC Adapter/SMP 2995 A Multiport Interface Cable 2996 A 16-Port Interface Cable — EIA-232 2997 A 16-Port Interface Cable — EIA-422-A 3000 S 4.5GB SCSI-2 Fast/Wide 1-inch (25 mm) High Disk Drive 3001 A 4.5GB SCSI-2 Fast/Wide Disk Drive Module 3003 S 4.5GB SCSI-2 Fast/Wide Disk Drive Module 3010 S 9.1GB SCSI-2 Fast/Wide Disk Drive 3011 A 9.1GB SCSI-2 Fast/Wide Disk Drive Module 3012 A 9.1GB SCSI-2 Fast/Wide Disk Drive Module 3013 S 9.1GB SCSI-2 Fast/Wide Disk Drive Module Select 3013 S 9.1GB SCSI-2 Fast/Wide Disk Drive Select 3015 S 9.1GB SCSI-2 Fast/Wide Disk Drive Select 3015 S 9.1GB SCSI-2 Fast/Wide Disk Drive Select 3015 S 9.1GB SCSI-2 Fast/Wide Disk Drive Select	2984	S	TURBOWAYS (TM) 100 ATM Adapter
2992 A Ethernet/FDX 10 Mbps TP/AUI MC Adapter 2993 A Ethernet High Performance BNC MC Adapter 2994 A IBM 10/100 Mbps Ethernet MC Adapter/SMP 2995 A Multiport Interface Cable 2996 A 16-Port Interface Cable — EIA-232 2997 A 16-Port Interface Cable — EIA-422-A 3000 S 4.5GB SCSI-2 Fast/Wide 1-inch (25 mm) High Disk Drive 3001 A 4.5GB SCSI-2 Fast/Wide Disk Drive Module 3003 S 4.5GB SCSI-2 Fast/Wide Disk Drive Module 3010 S 9.1GB SCSI-2 Fast/Wide Disk Drive 3011 A 9.1GB SCSI-2 Fast/Wide Disk Drive Module 3012 A 9.1GB SCSI-2 Fast/Wide Disk Drive Module 3013 S 9.1GB SCSI-2 Fast/Wide Disk Drive Module 3015 S 9.1GB SCSI-2 Fast/Wide Disk Drive Select			
A	2992	A	Ethernet/FDX 10 Mbps TP/AUI MC Adapter
2995			Ethernet High Performance BNC MC Adapter
2996	2995	A	Multiport Interface Cable
3000   S			16-Port Interface Cable — EIA-232
3001 A 4.5GB SCSI-2 Fast/Wide Disk Drive Module 3003 S 4.5GB SCSI-2 Fast/Wide 1-inch (25 mm) High Disk Drive Select 3010 S 9.1GB SCSI-2 Fast/Wide Disk Drive 3011 A 9.1GB SCSI-2 Fast/Wide Disk Drive Module 3012 A 9.1GB SCSI-2 Fast/Wide Disk Drive Module Select 3013 S 9.1GB SCSI-2 Fast/Wide Disk Drive Select 3015 S 9.1GB SCSI-2 Fast/Wide Disk Drive Select 3015 S 9.1GB SCSI-2 Fast/Wide Disk Drive Select			4.5GB SCSI—2 Fast/Wide 1—inch (25 mm)
High Disk Drive Select  3010 S 9.1GB SCSI-2 Fast/Wide Disk Drive  3011 A 9.1GB SCSI-2 Fast/Wide Disk Drive Module  3012 A 9.1GB SCSI-2 Fast/Wide Disk Drive Module  Select  3013 S 9.1GB SCSI-2 Fast/Wide Disk Drive Select  3015 S 9.1GB SCSI-2 Fast/Wide Disk Drive Select  3015 S 9.1GB SCSI-2 Disk Drive			
3011   A   9.1GB SCSI-2 Fast/Wide Disk Drive Module 3012   A   9.1GB SCSI-2 Fast/Wide Disk Drive Module Select 3013   S   9.1GB SCSI-2 Fast/Wide Disk Drive Select 3015   S   9.1GB SCSI-2 Fast/Wide Disk Drive Select 30303   S   1.1GB SCSI-2 Disk Drive	İ	1	High Disk Drive Select
3012 A 9.1GB SCSI-2 Fast/Wide Disk Drive Module Select 3013 S 9.1GB SCSI-2 Fast/Wide Disk Drive Select 3015 S 9.1GB SCSI-2 Fast/Wide Disk Drive Select 3030 S 1.1GB SCSI-2 Disk Drive			9.1GB SCSI—2 Fast/Wide Disk Drive 9.1GB SCSI—2 Fast/Wide Disk Drive Module
3013   S   9.1GB SCSI-2 Fast/Wide Disk Drive Select 3015   S   9.1GB SCSI-2 Fast/Wide Disk Drive Select 3030   S   1.1GB SCSI-2 Disk Drive			9.1GB SCSI-2 Fast/Wide Disk Drive Module
3015   S  9.1GB SCSI-2 Fast/Wide Disk Drive Select   3030   S  1.1GB SCSI-2 Disk Drive	3013	s	
3030	3015	S	9.1GB SCSI—2 Fast/Wide Disk Drive Select
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	J 5	A = Available S = Supported N = Not supported, must be removed
Feature Number		Description
3032 3033 3034 3040 3041	S S S S	1.1GB SCSI-2 Fast/Wide Disk Drive 2.2GB SCSI-2 Fast/Wide Disk Drive 4.5GB SCSI-2 Fast/Wide Disk Drive 1.1GB SCSI-2 Fast/Wide Disk Drive Select 1.1GB SCSI-2 Fast/Wide Disk Drive Select
3042	s	(Must order quantity of two) 1.1GB SCSI-2 Fast/Wide Disk Drive Select
3043 3044 3047 3048 3049 3050	S S S S S	(Must order quantity of two) 2.2GB SCSI-2 Fast/Wide Disk Drive Select 2.2GB SCSI-2 Fast/Wide Disk Drive Select 4.5GB SCSI-2 Fast/Wide Disk Drive Select 4.5GB SCSI-2 Fast/Wide Disk Drive Select 4.5GB SCSI-2 Fast/Wide Disk Drive Select 1.1GB SCSI-2 Fast/Wide Disk Drive Module
3051 3052 3053 3054 3060	S S S S	Select (Must order quantity of two) 4.5GB SCSI-2 Disk Drive Module Select 1.1GB SCSI-2 Fast/Wide Disk Drive Module 2.2GB SCSI-2 Fast/Wide Disk Drive Module 4.5GB SCSI-2 Disk Drive Module 1GB SCSI-2 Initial Order (Must order quantity of two)
3061	S	1GB SCSI-2 Initial Order (Must order quantity of four)
3062	S	2GB SCSI-2 Initial Order (Must order quantity of two)
3063	S	2GB SCSI-2 Initial Order (Must order quantity of four)
3064	S	2GB SCSI-2 Fast/Wide Initial Order (Must order quantity of two)
3065	S	2GB SCSI-2 Fast/Wide Initial Order (Must order quantity of four)
3094	S	2.2GB Fast/Wide Differential Module, Select (#9134), Quantity two Required PC Parallel Printer Cable
3100 3124	A	Serial to Serial Port Cable for Drawer/Drawer
3125	A	Serial to Serial Port Cable for Rack/Rack SCSI Device to Device Cable
3600 3601	S	POWERdisplay 16 POWERdisplay 19
3607	151	POWERdisplay 17
3608 3612	S	POWERdisplay 20 P50 Color Monitor
3613 3614	Ā	P70 Color Monitor P200 Color Monitor
3615	A	P201 Color Monitor
4008 4010	N N	8MB SD1 Memory Card 8MB to 16MB SD1 Memory Select Feature
4016 4032	N	16MB SD1 Memory Card 32MB HD1 Memory Card
4033	N	8MB to 32MB HD1 Memory Select
4035 4036	N N	64MB HD1 Memory Card 8MB to 64MB HD1 Memory Select
4057 4058	N	64MB S5 Memory Select
4059	N	128MB S5 Memory Select 256MB S5 Memory Select
4061 4062	S	Memory Conversion Kit to 256MB Memory Memory Conversion Kit to 512MB Memory
4063 4065	N N	8MB HD3 Memory Card 32MB HD2 Memory Card
4066 4067	N	16MB HD3 Memory Card 32MB HD3 Memory Card
4068	N	16MB to 32MB HD3 Memory Select
4069 4070	N N	64MB HD3 Memory Card 16MB to 64MB HD3 Memory Select
4071 4076	N N	32MB to 64MB HD3 Memory Select 32MB S5 Memory
4077 4078	N	64MB S5 Memory 128MB S5 Memory
4079	N	256MB S5 Memory
4090 4092	N N	128MB Memory Card 32MB to 128MB Memory Select
4095 4096	N N	256MB Memory Card 32MB to 256MB Memory Select
4124	S	128 MB SMP Memory, Conversion from feature 9045 + 4155 via RPQ 8A0962
4125	S	256 MB SMP Memory, Conversion from feature 9045 + 4155 via RPQ 8A0963
4126	S	512 MB SMP Memory, Conversion from feature 9045 + (3 x 4155) via RPQ 8A0964
4127	S	256 MB SMP Memory, Conversion from feature 9045 + (3 x 4155) via RPQ 8A0965

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	J 5	A = Available S = Supported N = Not supported, must be removed
Feature	0	•
Number		Description
4144	S	128MB Memory Select 256MB Memory Select
4145 4146	S S S	256MB Memory Select
4147	Š	512MB Memory Select 256MB Memory Select 512MB Memory Select
4148 4155	S	512MB Memory Select 64MB Memory Card
4156	ISI	128MB Memory Card
4157   4158	S	256MB Memory Card 512MB Memory Card
4162	A	1GB SMP DIMMS on 1GB Card Select (#9165)
4165 4166	A	256MB SMP DIMMS on 1GB Card 256MB SMP DIMM Kit
4167	A	1GB SMP DIMMS on 1GB Card (Fact Only)
4185	[A]	256MB SMP DIMMS on 1GB Card, (Model Upgrade Only, RPQ Prerequisite)
4186	A	256MB SMP DIMM Kit, (Model Upgrade Only, RPO Prerequisite)
4187	A	IGB SMP DIMMS on IGB Card, (Model Upgrade
4213		Only, RPQ Prerequisite) 13W3 to 15-Pin D-Shell Converter Cable
4214	A	13W3 to 60/77Hz Display Cable
4221 4222	N N	Ethernet AUI/Thin Riser Ethernet Twisted Pair Riser
4224	Ă	Ethernet 10BaseT Transceiver
4227 4229	A A	Sun Compatible Display Converter Cable 13W3 to POWERdisplay 16S Display Cable 13W3 to 13W3 Display Cable
4234 4236	A N	13W3 to 13W3 Display Cable
4301	N	13W3 to 3W3 Display Cable PowerPC 604 (TM) Processor Card with
4302	$ _{N} $	512KB L2 Cache Dual 601 Processor Card, 1MB L2 Cache
4304	N	Dual PowerPC 604 112MHz Processor Card Upgrade
4324	A	with 1MB L2 Cache 604e SMP 2W, 200MHz, 2MB/Processor L2
4336	A	604e SMP 2W, 200MHz, 2MB/Processor L2, MES (604->604e)
4350	N	POWERgraphics GTO Accelerator Feature
5005	A N	Software Preinstall 32MR Memory SIMM Kit
5064	N	32MB Memory SIMM Kit 64MB Memory SIMM Kit
5065 5128	N N	64MB S5 Memory SIMM Upgrade 128MB Memory SIMM Kit
6010	Ă	Keyboard — 101 Keys (U.S.) Keyboard — 102 Keys (Belgian-Dutch/French)
6012	A A	Keyboard — 102 Keys (Canadian French)
6013	A	Keyboard — 102 Keys (Canadian French) Keyboard — 102 Keys (Danish) Keyboard — 102 Keys (Finnish) Keyboard — 102 Keys (French) Keyboard — 102 Keys (German) Keyboard — 102 Keys (German)
6015	A	Keyboard — 102 Keys (French)
6016	A	Keyboard — 102 Keys (German) Keyboard — 102 Keys (Italian)
6019	A	Keyboard — 102 Keys (Norwegian)
6020	A	Keyboard — 102 Keys (Portuguese) Keyboard — 102 Keys (Spanish)
6022	A	Keyboard — 102 Keys (Italian) Keyboard — 102 Keys (Italian) Keyboard — 102 Keys (Norwegian) Keyboard — 102 Keys (Portuguese) Keyboard — 102 Keys (Spanish) Keyboard — 102 Keys (Swiss) Keyboard — 102 Keys (United Kingdom —
6023	1 1	
6024	A	Keyboard — 102 Keys (Icelandic) Keyboard — 102 Keys (Turkish) Keyboard — 102 Keys (Greek) Keyboard — 102 Keys (Hebrew)
6026	A	Keyboard — 102 Keys (Greek)
6027	A	кеуроагд — 1U2 Keys (Hebrew) Keyboard — 1O2 Kevs (Arabic)
6030	A	Keyboard — 106 Keys (Japanese — Kanji)
6031	A	Keyboard — 102 Keys (Arabic) Keyboard — 106 Keys (Japanese — Kanji) Keyboard — 106 Keys (Korean) Keyboard — 106 Keys (Chinese Traditional —
6034	A	laiwan)
6035	A	Keyboard — Dutch #143 (Netherlands) Keyboard — Turkish #440
6041	A	Three—Button Mouse Internal 8 mm 5/10GB Tape Module
6139	A	Internal 4 mm 4/8GB Tape Module
6141	S	5GB 8 mm Tape Select 4GB/8GB 4 mm Internal Tape Drive
6143	Ň	CD-ROM to 2.3GB 8 mm Internal
6144	s	Tape Drive Select CD—ROM to 5.0GB 8 mm Internal
6145	S	Tape Drive Select 4GB 4 mm Tape Drive Select
6146	N	2.3GB 8 mm Internal Tape Drive
6147	S	5GB/10GB 8 mm Internal Tape Drive Cluster Power Controller
6176	A	Null Modem Cable: CPC to TTY
6177	A	Null Modem Cable: CPC to CPC Null Modem Cable: CPC to CPU
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	J 5	A = Available S = Supported N = Not supported, must be removed
Feature Number		Description
6210	S	High-Performance Disk Drive Subsystem
6211	S	Adapter (40 Mbps) High—Performance Disk Drive Subsystem Adapter
6212	A	(80 Mbps) High—Performance Subsystem Adapter
6214	S	(40/80 Mbps) High Performance 4—Port SSA Adapter
6216 6217	A A	Enhanced 4-Port, SSA, 8 Initial, MCA IBM SSA 4-port RAID Adapter
6300	S	Digital Trunk Adapter M-Audio Capture Playback Adapter
6302	A	IBM Ultimedia Audio Adapter Digital Trunk Dual Adapter
6306 6307	N N	IBM Speech Accelerator 1 IBM Speech Accelerator 2
6400	N	64—Port Asynchronous Controller
6402	N	16—Port Asynchronous Concentrator RJ—45 to DB—25 Converter Cable
6501 6506	N N	3.5—Inch Disk Drive Mounting Hardware Incremental Cooling Fan
6511 6514	A A	Media to Disk Bay Conversion Hardware Hot Swap 8-bit Disk Enclosure
6515	A A	Hot Swap Media Enclosure Hot Swap 16-bit Disk Enclosure
7002	S	<pre>IBM Realtime Interface Co-Processor:    Multiport/2 Adapter (.5MB)</pre>
7004	S	IBM Realtime Interface Co-Processor: Multiport/2 Adapter (1MB)
7006	A	IBM Realtime Interface Co-Processor: Portmaster (R) Adapter/A (1MB)
7008	S	IBM Realtime Interface Co-Processor: Portmaster Adapter/A (2MB)
7022	S	IBM Realtime Interface Co-Processor:
7024	S	Multiport/2 4—Port RS—232 Interface Board IBM Realtime Interface Co—Processor:
7006		Multiport/2 6-Port RS-232-C Synchronous Interface Board
7026	S	IBM Realtime Interface Co-Processor: Multiport/2 8-Port RS-232 Interface Board
7028	S	IBM Realtime Interface Co-Processor: Multiport/2 8-Port RS-422-A Interface Board
7030	S	IBM Realtime Interface Co-Processor: Multiport/2_RS-232/RS-422_Interface Board
7042	A	IBM Realtime Interface Co-Processor: 8-Port RS-232 Interface Board/A
7044	A	IBM Realtime Interface Co-Processor: 8-Port RS-422 Interface Board/A
7046	A	IBM Realtime Interface Co-Processor: 6-Port V.35 Interface Board/A
7048	A	IBM Realtime Interface Co-Processor: 6-Port X.21 Interface Board/A
7102	S	IBM Realtime Interface Co-Processor: EIA RS-232-C Multiport Interface Cable
7104	S	IBM Realtime Interface Co-Processor: Synchronous Interface Cable
7106	A	IBM Realtime Interface Co-Processor: 6-Port V.35 Cable
7107	A	IBM Realtime Interface Co-Processor: V.35 Network Cable
7108	A	IBM Realtime Interface Co-Processor: 8-Port EIA-232/422 Cable
7110	A	IBM Realtime Interface Co-Processor: 6-Port X.21 Cable
7111	A	IBM Realtime Interface Co-Processor: X.21 Network Cable
8128 8130	A	128-Port Asynchronous Controller Remote Asynchronous Node 16-Port
8131	A	EIA-232 (U.S.) 128-Port Asynchronous Controller Cable,
8132	A	4.5 meter 128-Port Asynchronous Controller Cable,
8133	A	23 cm (9—inch) RJ—45 to DB—25 Converter Cable
8135 8136	A	64-Port to 128-Port Pin-Out Converter Rack Mountable Remote Asynchronous Node
8A0836	N N	16-Port EIA-232 MG24 Graphics Adapter
8A0875 9000	N N	ICL Search Accelerator Ethernet AUI/Thin Riser Specify
9001	N A	Ethernet Twisted Pair Riser Specify Southern Hemisphere Specify for Monitors
9042	N	1MB L2 Cache Specify 64MB Base Memory
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	J 5	A = Available S = Supported N = Not supported, must be removed
Feature Number		Description
9046 9051 9076 9116 9131 9133 9134 9138 9150	SNNNSSSAN	128MB Memory Specify 604 SMP 2W, Base, 112MHz, 1MB L2 32MB S5 Memory Specify Transformer Specify, 115 to 127 V AC 2.2GB SCSI-2 Fast/Wide Disk Drive Specify 2.2GB Base SCSI-2 Fast/Wide Disk Drive Module Base 4.5GB Fast/Wide DASD Differential Module Base 4.5GB Fast/Wide DASD Differential Module Specify
9165 9212	A	Base 256MB SMP DIMMS on 1GB Card Base Enhanced SCSI-2 Differential Fast/Wide Adapter/A
9216 9217	S	IBM SCSI-2 Fast/Wide Adapter/A Specify IBM SCSI-2 Fast/Wide Differential Adapter/A Specify
9218 9219 9220 9221 9223 9231 9232 9234 9235 9236 9243 9245 9246 9249 9263 9300 9302 9402 9430 9431 9441 9605 9606 9607 9608 9712 9886	SSNASSNANNANNANNAS SASAAA	Internal CD-ROM-2 Specify SCSI-2 I/O Controller Specify SCSI-2 I/O Controller Specify 3.5-Inch 1.44MB Diskette Drive Specify Internal CD-ROM Specify 8MB SD1 Memory Specify 32MB HD2 Memory Specify 16MB HD3 Memory Specify 16MB SD1 Memory Specify 16MB SD1 Memory Specify 16MB SCSI Disk Drive Specify 400MB SCSI Disk Drive Specify 800MB SCSI Disk Drive Specify 355MB SCSI Disk Drive Specify 36B SCSI-2 Disk Drive Specify 16B SCSI-2 Disk Drive Specify 26B SCSI-2 Tolest Drive Specify 26B SCSI-2 Disk Drive Specify 26B SCSI-2 Disk Drive Specify 26B SCSI-2 Disk Drive Specify 26B SCSI-2 Disk Drive Specify 26B SCSI-2 Disk Drive Specify 27B SCSI-2 Disk Drive Specify 28B SCSI-2 Disk Drive Specify 28B Dual 601 Processor Card, 1MB L2 Cache 28B Dual 601 Processor Card, 1MB L2 Cache 28B Dual 601 Processor Card, 1MB L2 Cache 28B Dual 601 Processor Card, 1MB L2 Cache 28B Dual 601 Processor Card, 1MB L2 Cache 28B Dual 601 Processor Card, 1MB L2 Cache 28B Dual 601 Processor Card, 1MB L2 Cache 28B Dual 601 Processor Card, 1MB L2 Cache 28B Dual 601 Processor Card, 1MB L2 Cache 28B Dual 601 Processor Card, 1MB L2 Cache 28B Dual 601 Processor Card, 1MB L2 Cache 28B Dual 601 Processor Card, 1MB L2 Cache 28B Dual 601 Processor Card, 1MB L2 Cache 28B Dual 601 Processor Card, 1MB L2 Cache 28B Dual 601 Processor Card, 1MB L2 Cache 28B Dual 601 Processor Card, 1MB L2 Cache 28B Dual 601 Processor Card, 1MB L2 Cache 28B Dual 601 Processor Card, 1MB L2 Cache 38B Dua
9997 9998	N N	(1.8 m)(6 ft) (Product Scheduling Use Only, 6-Way) Indicator Product Scheduling Use Only Specify

# **Devices Supported**

Machine Type- Model	J 5 0	<pre>X = Supported Device     Description</pre>
		Printers
2380-001 2380-002 2381-001 2381-002 2390-001 2390-002 2391-001 2391-001 3116-001 3116-002 3116-003 3930-03D 3930-03D 4037-05E 4039-10D X	X X X X X X X X X X X X X X X X X X X	Personal Printer Series II Plus Printer Personal Printer Series II Plus Printer Personal Printer Series II Plus Printer Personal Printer Series II Plus Printer Personal Printer Series II Plus Printer Page Printer Page Printer Page Printer Page Printer Page Printer Page Printer Page Printer Page Printer Page Printer Page Printer LaserPrinter 10D
4039–10R	X	LaserPrinter 10R

Machine   O			
Description			X = Supported Device
			Description
		Ш	Printers (continued)
	4039–12L	χ	LaserPrinter 12L Plus
4049-12k	4039–12R	X	LaserPrinter 12R Plus
4070-001	4049–12L	X	Optra L LaserPrinter
Windlestein			
4079-001 X Color Jetprinter PS 4230-413 X Impact Matrix Printer 4230-433 X Impact Matrix Printer 4230-453 X Impact Matrix Printer 4230-513 X Impact Matrix Printer 4230-530 X Impact Matrix Printer 4230-530 X Impact Matrix Printer 6400-004 X Line Matrix Printer 6400-008 X Line Matrix Printer 6400-010 X Line Matrix Printer 6408-A00 X Line Matrix Printer 6408-A00 X Line Matrix Printer 6412-A01 X Line Matrix Printer 6412-A02 X Line Matrix Printer 6412-A02 X Line Matrix Printer 6412-A03 X Line Matrix Printer 6412-A01 X Line Matrix Printer 6412-A02 X Line Matrix Printer 6412-A01 X Line Matrix Printer 6412-A02 X Line Matrix Printer 6412-A01 X Line Matrix Printer 6412-A02 X Line Matrix Printer 6412-A02 X Line Matrix Printer 6412-A02 X Line Matrix Printer 6412-A03 X Line Matrix Printer 6412-A02 X Line Matrix Printer 6412-A03 X Line Matrix Printer 6412-A02 X Line Matrix Printer 6412-A03 X Line Matrix Printer 6412-A02 X Line Matrix Printer 6412-A03 X Line Matrix Printer 642-A04 X Line Matrix Printer 6432-A04 X Line Matrix Printer 6440-012 X Line Matrix Printer 6440-012 X Line Matrix Printer 6440-010 X Color Plotter 6480-01 X Color Plotter 6480-01 X Color Plotter 6480-01 X Serial Communications Network Server 74318-520 X Serial Communications Network Server 74318-520 X SSA Disk Subsystem (Rack-Mounted) 7433-600 X SSA Disk Subsystem (Rack-Mounted) 7433-600 X SSA Disk Subsystem 7434-010 X Rafloiant Array 7435-101 X Rafloiant Array 7435-101 X Rafloiant Array 744 X Disk Array Subsystem 7437-512 X Disk Array Subsystem 7437-513 X Disk Array Subsystem 7437-514 X Disk Array Subsystem 744-413 X Disk Array Subsystem 7470-4010 X IGB Disk Drive 7404-101 X IGB Disk Drive 7404-101 X IGB Disk Drive 7404-313 X 2.2 GB Fast/Wide Disk Drive 7404-313 X 2.2 GB Fast/Wide Disk Drive 7404-315 X Serial Link Subsystem 7404-315 X Serial Link Subsystem 7404-315 X Serial Link Subsystem 7404-315 X Serial Link Subsystem 7404-315 X Serial Link Subsystem 7404-315 X Serial Link Subsystem 7404-315 X Serial Link Subsystem 7404-315 X Serial Link Subsystem 7404			
4230-513 X Impact Matrix Printer 4230-513 X Impact Matrix Printer 4230-513 X Impact Matrix Printer 4230-523 X Impact Matrix Printer 6400-004 X Line Matrix Printer 6400-008 X Line Matrix Printer 6408-A00 X Line Matrix Printer 6408-A00 X Line Matrix Printer 6408-A01 X Line Matrix Printer 6412-A02 X Line Matrix Printer 6412-A03 X Line Matrix Printer 6412-A04 X Line Matrix Printer 6412-A07 X Line Matrix Printer 6412-A07 X Line Matrix Printer 6412-A07 X Line Matrix Printer 6412-A07 X Line Matrix Printer 6412-A07 X Line Matrix Printer 74 X Line Matrix Printer 75 X Line Matrix Printer 76 X Line Matrix Printer 77 X Line Matrix Printer 78 X Line M	4079-001	X	Color Jetprinter PS
	4230–413 4230–4S3		
4232-302 X Impact Dot Matrix Printer 6400-004 X Line Matrix Printer 6400-008 X Line Matrix Printer 6400-0012 X Line Matrix Printer 6408-MO0 X Line Matrix Printer 6408-MO0 X Line Matrix Printer 6412-A00 X Line Matrix Printer 6412-A01 X Line Matrix Printer 6412-CTA X Line Matrix Printer 6412-CTA X Line Matrix Printer 6180-001 X Line Matrix Printer 6180-001 X Color Plotter 6182-001 X Color Plotter 6182-001 X Color Plotter 6185-001 X Color Plotter 6185-001 X Color Plotter 7318-P10 X Serial Communications Network Server 7318-P20 X Serial Communications Network Server 7318-P30 X Serial Communications Network Server 7318-P30 X Serial Communications Network Server 7318-P30 X Serial Communications Network Server 7313-905 X SSA Disk Subsystem (Rack-Mounted) 733-900 X SSA Disk Subsystem (Rack-Mounted) 733-500 X SSA Disk Subsystem (Rack-Mounted) 733-500 X SSA Disk Subsystem (Rack-Mounted) 733-500 X SSA Disk Subsystem 733-401 X High Density SCSI Disk Subsystem 733-412 X RAIDiant Array 735-10 X RAIDiant Array 737-412 X Disk Array Subsystem 7373-413 X Disk Array Subsystem 7373-414 X Disk Array Subsystem 7373-415 X Disk Array Subsystem 7373-515 X Disk Array Subsystem 737-514 X Disk Array Subsystem 737-515 X Disk Array Subsystem 737-515 X Disk Array Subsystem 737-515 X Disk Array Subsystem 737-515 X Disk Array Subsystem 737-515 X Disk Array Subsystem 737-515 X Disk Array Subsystem 737-515 X Disk Array Subsystem 737-515 X Disk Array Subsystem 737-515 X Disk Array Subsystem 738-510 X Raidiant Array 738-510 X Disk Array Subsystem 738-510 X Disk Array Subsystem 738-51 X Disk Array Subsystem 738-51 X Disk Array Subsystem 738-51 X Disk Array Subsystem 738-51 X Disk Array Subsystem 738-51 X Disk Array Subsystem 738-51 X Disk Array Subsystem 738-51 X Disk Array Subsystem 738-51 X Disk Array Subsystem 738-51 X Disk Array Subsystem 738-51 X Disk Drive 738-60 X Drive Subsystem 7404-113 X 22 GB Fast/Wide Disk Drive 7404-315 X 22 GB Fast/Wide Disk Drive 7404-315 X 22 GB Fast/Wide Disk Drive 7404-315 X 22 GB Differential Fast/Wide Di			
6400-008   X   Line Matrix Printer   6408-400   X   Line Matrix Printer   6408-400   X   Line Matrix Printer   6412-400   X   Line Matrix Printer   6412-400   X   Line Matrix Printer   6412-401   X   Line Matrix Printer   6412-400	4232-302	X	Impact Dot Matrix Printer
6408-CTA   X   Line Matrix Printer   6412-A00   X   Line Matrix Printer   G412-A01   X   Line Matrix Printer   G412-A01   X   Line Matrix Printer   G412-A01   X   Line Matrix Printer   G412-CTA   X   Line Matrix Printer   G412-A01   X   Auto Feed Color Plotter   G482-001   X   Color Plotter   Communications   C	6400–008	X	Line Matrix Printer
6408—CTA X Line Matrix Printer 6412—A00 X Line Matrix Printer 6412—CTA X Line Matrix Printer  Plotters  Flotters  Color Plotter 6182—001 X Color Plotter 6184—001 X Color Plotter 6185—001 X Color Plotter 6185—001 X Color Plotter Communications  Communications Network Server 7318—S20 X Serial Communications Network Server 0727—HSC X High Capacity Storage Drawer 7027—HSC X High Capacity Storage Drawer 7131—105 X Multi—Storage Tower 7133—100 X SSA Disk Subsystem (Rack—Mounted) 7133—300 X SSA Disk Subsystem (Rack—Mounted) 7133—600 X SSA Disk Subsystem 7134—010 X High Density SCSI Disk Subsystem 7135—010 X RAIDiant Array 7135—210 X RAIDiant Array 7137—412 X Disk Array Subsystem 7137—413 X Disk Array Subsystem 7137—512 X Disk Array Subsystem 7137—514 X Disk Array Subsystem 7137—515 X Disk Array Subsystem 7137—516 X Disk Array Subsystem 7137—517 X Line Array Subsystem 7137—518 X Disk Array Subsystem 7137—519 X RAIDiant Disk Drive 7204—010 X Line Disk Drive 7204—112 X Line Disk Drive 7204—112 X Line Disk Drive 7204—112 X Line Disk Drive 7204—112 X Line Disk Drive 7204—112 X Line Disk Drive 7204—112 X Line Disk Drive 7204—112 X Line Disk Drive 7204—112 X Line Disk Drive 7204—114 X Line Disk Drive 7204—115 X Cap Brast/Wide Disk Drive 7204—116 X Line Disk Drive 7204—117 X Line Disk Drive 7204—118 X Line Disk Drive 7204—119 X Line Disk Drive 7204—110 X Line Disk Drive 7204—111 X Line Disk Drive 7204—112 X Line Disk Drive 7204—112 X Line Disk Drive 7204—113 X Line Disk Drive 7204—114 X Line Disk Drive 7204—115 X Line Disk Drive 7204—116 X Line Disk Drive 7204—117 X Line Disk Drive 7204—118 X Line Disk Drive 7204—119 X Line Disk Drive 7204—110 X Line Disk Drive 7204—111 X Line Disk Drive 7204—112 X Line Disk Drive 7204—113 X Line Disk Drive 7204—114 X Line Disk Drive 7204—115 X Sepial Link Subsystem 7333—500 X Serial Link Subsystem 7333—500 X Serial Link Subsystem 7333—501 X Serial Link Subsystem 7333—500 X Serial Link Subsystem 7333—500 X Serial Link Subsystem 7333—500 X Serial Link Subsystem 7333—500 X Serial Link Subsystem			
Plotters	6408-CTA		
6180-001 X Auto Feed Color Plotter 6184-001 X Color Plotter 6185-001 X Color Plotter 6185-001 X Color Plotter 6185-001 X Color Plotter 6185-001 X Color Plotter  Communications  Communications Network Server 7318-P10 X Serial Communications Network Server Disks 7027-HSC X High Capacity Storage Drawer 7131-105 X Multi-Storage Tower 7131-405 X Multi-Storage Tower 7133-010 X SSA Disk Subsystem (Rack-Mounted) 7133-500 X SSA Disk Subsystem (Rack-Mounted) 7133-500 X SSA Disk Subsystem 7135-010 X RAIDiant Array 7135-010 X RAIDiant Array 7135-10 X RAIDiant Array 7137-412 X Disk Array Subsystem 7137-413 X Disk Array Subsystem 7137-414 X Disk Array Subsystem 7137-515 X Disk Array Subsystem 7137-514 X Disk Array Subsystem 7137-515 X Disk Array Subsystem 7137-514 X Disk Array Subsystem 7137-515 X Disk Array Subsystem 7137-514 X Disk Array Subsystem 7137-515 X Disk Array Subsystem 7137-514 X Disk Array Subsystem 7137-515 X Disk Array Subsystem 7137-517 X Disk Array Subsystem 7137-518 X Disk Array Subsystem 7137-519 X Disk Array Subsystem 7137-510 X Disk Array Subsystem 7137-511 X Disk Array Subsystem 7137-512 X Disk Array Subsystem 7137-513 X Disk Array Subsystem 7137-514 X Disk Array Subsystem 7137-515 X Disk Array Subsystem 7137-516 X Disk Array Subsystem 7137-517 X Disk Array Subsystem 7137-518 X Disk Array Subsystem 7137-519 X Disk Array Subsystem 7137-510 X Disk Array Subsystem 7137-511 X Disk Array Subsystem 7137-512 X Disk Array Subsystem 7137-513 X Disk Array Subsystem 7137-514 X Disk Array Subsystem 7137-515 X Disk Array Subsystem 7137-516 X Disk Array Subsystem 7137-517 X Disk Array Subsystem 7137-518 X Disk Array Subsystem 7137-519 X Disk Array Subsystem 7137-519 X Disk Array Subsystem 7137-510 X Disk Array Subsystem 7137-510 X Disk Array Subsystem 7137-510 X Disk Array Subsystem 7137-510 X Disk Array Subsystem 7137-510 X Disk Array Subsystem 7137-510 X Disk Array Subsystem 7137-510 X Disk Array Subsystem 7137-510 X Disk Disk Disk Disk Disk Disk Disk Disk			
6182-001 X Auto Feed Color Plotter 6185-001 X Color Plotter Communications  Serial Communications Network Server Disks 7027-HSC X High Capacity Storage Drawer 7131-105 X Multi-Storage Tower 7131-405 X SSA Multi-Storage Tower 7133-010 X SSA Disk Subsystem (Rack-Mounted) 7133-020 X SSA Disk Subsystem (Rack-Mounted) 7133-010 X SSA Disk Subsystem 7133-010 X SSA Disk Subsystem 7134-010 X High Density SCSI Disk Subsystem 7135-010 X RAIDiant Array 7135-010 X RAIDiant Array 7135-10 X RAIDiant Array 7137-412 X Disk Array Subsystem 7137-414 X Disk Array Subsystem 7137-513 X Disk Array Subsystem 7137-514 X Disk Array Subsystem 7137-515 X Disk Array Subsystem 7137-516 X Disk Array Subsystem 7137-517 X Disk Array Subsystem 7137-518 X Disk Array Subsystem 7137-519 X Disk Array Subsystem 7137-510 X Disk Array Subsystem 7137-511 X Disk Array Subsystem 7137-512 X Disk Array Subsystem 7137-513 X Disk Array Subsystem 7137-514 X Disk Array Subsystem 7137-515 X Disk Array Subsystem 7137-516 X Disk Array Subsystem 7137-517 X Disk Array Subsystem 7137-518 X Disk Array Subsystem 7137-519 X Disk Array Subsystem 7137-510 X Disk Array Subsystem 7137-511 X Disk Array Subsystem 7137-512 X Disk Array Subsystem 7137-513 X Disk Array Subsystem 7137-514 X Disk Array Subsystem 7137-515 X Disk Array Subsystem 7137-516 X Disk Array Subsystem 7137-517 X Disk Array Subsystem 7137-518 X Disk Array Subsystem 7137-519 X Disk Array Subsystem 7137-510 X Disk Array Subsystem 7137-511 X Disk Array Subsystem 7137-512 X Disk Array Subsystem 7137-513 X Disk Array Subsystem 7137-514 X Disk Array Subsystem 7137-515 X Disk Array Subsystem 7137-516 X Disk Array Subsystem 7137-517 X Disk Array Subsystem 7137-518 X Disk Array Subsystem 7137-519 X Disk Array Subsystem 7137-519 X Disk Array Subsystem 7137-519 X Disk Array Subsystem 7137-519 X Disk Array Subsystem 7137-519 X Disk Array Subsystem 7137-519 X Disk Array Subsystem 7137-519 X Disk Array Subsystem 7137-519 X Disk Array Subsystem 7138-10 X Disk Disk Disk Disk Disk Disk Disk Disk			Plotters
Communications    Communications			
Communications    Communications   Commu	6184–001	X	Color Plotter
7318—P10 7318—S20 X Serial Communications Network Server Disks 7027—HSC 7027—HSD 7131—105 X High Capacity Storage Drawer X Multi—Storage Tower 7133—105 X SSA Multi—Storage Tower X SSA Disk Subsystem (Rack—Mounted) X SSA Disk Subsystem (Rack—Mounted) X SSA Disk Subsystem X SSA Disk Subsystem X SSA Disk Subsystem X SSA Disk Subsystem X SSA Disk Subsystem X RAIDiant Array X RAIDiant Array X RAIDiant Array X RAIDiant Array X RAIDiant Array X Disk Array Subsystem X Disk Array Subsys	6185-001	X	
7318—S20 X Serial Communications Network Server Disks 7027—HSC X High Capacity Storage Drawer 7131—105 X Multi—Storage Tower 7131—405 X SSA Multi—Storage Tower 7133—010 X SSA Disk Subsystem (Rack—Mounted) 7133—020 X SSA Disk Subsystem (Rack—Mounted) 7133—500 X SSA Disk Subsystem 7134—010 X SSA Disk Subsystem 7135—010 X RAIDiant Array 7135—210 X RAIDiant Array 7135—210 X RAIDiant Array 7137—412 X Disk Array Subsystem 7137—413 X Disk Array Subsystem 7137—414 X Disk Array Subsystem 7137—515 X Disk Array Subsystem 7137—516 X Disk Array Subsystem 7137—517 X Disk Array Subsystem 7137—518 X Disk Array Subsystem 7137—519 X Disk Array Subsystem 7137—510 X Disk Array Subsystem 7137—511 X Disk Array Subsystem 7137—512 X Disk Array Subsystem 7137—513 X Disk Array Subsystem 7137—514 X Disk Array Subsystem 7137—515 X Disk Array Subsystem 7137—516 X Disk Array Subsystem 7137—517 X Disk Array Subsystem 7137—518 X Disk Array Subsystem 7137—519 X Disk Array Subsystem 7137—510 X Disk Array Subsystem 7137—510 X Disk Array Subsystem 7137—511 X Disk Array Subsystem 7137—512 X Disk Array Subsystem 7137—513 X Disk Array Subsystem 7137—514 X Disk Array Subsystem 7137—515 X Disk Array Subsystem 7137—516 X Disk Array Subsystem 7137—517 X Disk Array Subsystem 7137—518 X Disk Array Subsystem 7137—519 X Disk Array Subsystem 7137—510 X Disk Array Subsystem 7137—511 X Disk Array Subsystem 7137—512 X Disk Array Subsystem 7137—513 X Disk Array Subsystem 7137—514 X Disk Array Subsystem 7137—515 X Disk Array Subsystem 7137—516 X Disk Array Subsystem 7137—517 X Disk Array Subsystem 7137—518 X Disk Array Subsystem 7137—519 X Disk Array Subsystem 7137—510 X Disk Array Subsystem 7137—510 X Disk Array Subsystem 7137—510 X Disk Array Subsystem 7137—510 X Disk Array Subsystem 7137—510 X Disk Array Subsystem 7137—510 X Disk Array Subsystem 7137—510 X Disk Array Subsystem 7137—510 X Disk Array Subsystem 7137—6.91 GBD 7137—710 X Disk Array Subsystem 7137—710 X Disk Array Subsystem 7137—710 X Disk Array Subsystem 7137—710 X Disk Array Subsystem 7137—710 X D	7210 D10	   	
7131—105 X SSA Multi—Storage Tower 7131—405 X SSA Disk Subsystem (Rack—Mounted) 7133—010 X SSA Disk Subsystem (Rack—Mounted) 7133—000 X SSA Disk Subsystem 7133—600 X SSA Disk Subsystem 7134—010 X High Density SCSI Disk Subsystem 7135—010 X RAIDiant Array 7135—010 X RAIDiant Array 7135—101 X RAIDiant Array 7137—412 X Disk Array Subsystem 7137—412 X Disk Array Subsystem 7137—413 X Disk Array Subsystem 7137—414 X Disk Array Subsystem 7137—512 X Disk Array Subsystem 7137—512 X Disk Array Subsystem 7137—513 X Disk Array Subsystem 7137—514 X Disk Array Subsystem 7137—515 X Disk Array Subsystem (3.94 — 13.77 GB) (Rack Mounted) 7137—515 X Disk Array Subsystem (8.39 — 29.36 GB) (Rack Mounted) 7137—515 X Disk Array Subsystem 7203—001 X Portable Disk Drive (4.5GB Only) 7204—001 X IGB Disk Drive 7204—112 X 1.1GB Disk Drive 7204—113 X 2.2 GB Fast/Wide Disk Drive 7204—114 X 4.5 GB Fast/Wide Disk Drive 7204—115 X 2GB Fast/Wide Disk Drive 7204—315 X 2GB Differential Fast/Wide Disk Drive 7204—315 X 2GB Differential Fast/Wide Disk Drive 7204—315 X 2GB Differential Fast/Wide Disk Drive 7204—315 X 2GB Differential Fast/Wide Disk Drive 7204—315 X 2GB Differential Fast/Wide Disk Drive 7204—315 X 2GB Differential Fast/Wide Disk Drive 7204—315 X 2GB Differential Fast/Wide Disk Drive 7204—315 X 2GB Differential Fast/Wide Disk Drive 7204—315 X 2GB Differential Bridge Box with 9.1GB Hard Disk Drive 7204—315 X Serial Link Subsystem 7333—501 X Serial Link Subsystem 7333—501 X Serial Link Subsystem 7334—010 X Drawer Expansion Unit			Serial Communications Network Server
7131—105 X SSA Multi—Storage Tower 7131—405 X SSA Disk Subsystem (Rack—Mounted) 7133—010 X SSA Disk Subsystem (Rack—Mounted) 7133—000 X SSA Disk Subsystem 7133—600 X SSA Disk Subsystem 7134—010 X High Density SCSI Disk Subsystem 7135—010 X RAIDiant Array 7135—010 X RAIDiant Array 7135—101 X RAIDiant Array 7137—412 X Disk Array Subsystem 7137—412 X Disk Array Subsystem 7137—413 X Disk Array Subsystem 7137—414 X Disk Array Subsystem 7137—512 X Disk Array Subsystem 7137—512 X Disk Array Subsystem 7137—513 X Disk Array Subsystem 7137—514 X Disk Array Subsystem 7137—515 X Disk Array Subsystem (3.94 — 13.77 GB) (Rack Mounted) 7137—515 X Disk Array Subsystem (8.39 — 29.36 GB) (Rack Mounted) 7137—515 X Disk Array Subsystem 7203—001 X Portable Disk Drive (4.5GB Only) 7204—001 X IGB Disk Drive 7204—112 X 1.1GB Disk Drive 7204—113 X 2.2 GB Fast/Wide Disk Drive 7204—114 X 4.5 GB Fast/Wide Disk Drive 7204—115 X 2GB Fast/Wide Disk Drive 7204—315 X 2GB Differential Fast/Wide Disk Drive 7204—315 X 2GB Differential Fast/Wide Disk Drive 7204—315 X 2GB Differential Fast/Wide Disk Drive 7204—315 X 2GB Differential Fast/Wide Disk Drive 7204—315 X 2GB Differential Fast/Wide Disk Drive 7204—315 X 2GB Differential Fast/Wide Disk Drive 7204—315 X 2GB Differential Fast/Wide Disk Drive 7204—315 X 2GB Differential Fast/Wide Disk Drive 7204—315 X 2GB Differential Bridge Box with 9.1GB Hard Disk Drive 7204—315 X Serial Link Subsystem 7333—501 X Serial Link Subsystem 7333—501 X Serial Link Subsystem 7334—010 X Drawer Expansion Unit			High Capacity Storage Drawer High Capacity Storage Drawer
7133-010	7131–105	X	Multi-Storage Tower
7133-500   X   SSA Disk Subsystem   7133-600   X   SSA Disk Subsystem   7134-010   X   SSA Disk Subsystem   7135-010   X   RAIDiant Array   7135-110   X   RAIDiant Array   7135-110   X   RAIDiant Array   7137-412   X   Disk Array Subsystem   7137-413   X   Disk Array Subsystem   7137-414   X   Disk Array Subsystem   7137-512   X   Disk Array Subsystem   7137-512   X   Disk Array Subsystem   7137-513   X   Disk Array Subsystem   7137-514   X   Disk Array Subsystem   7137-515   X   Disk Array Subsystem   7137-514   X   Disk Array Subsystem   7137-515   X   Disk Disk Drive   7137-516   X   Disk Drive   7137-517   X   Disk Drive   7137-517   X   Disk Drive   7137-518   X   Disk Drive   7137-519   X   Disk Drive   7137-51	7133–010	X	SSA Disk Subsystem (Rack-Mounted)
T134-010	7133–500	X	SSA Disk Subsystem
7135-010			
7135-210	7135–010	X	RAIDiant Array
7137—413   X   Disk Array Subsystem   7137—414   X   Disk Array Subsystem   7137—415   X   Disk Array Subsystem   7137—512   X   Disk Array Subsystem   (1.97 — 6.91 GB)   (Rack Mounted)   (Rack	7135–210	X	RAIDiant Array
(Rack Mounted) 7137–513		X	Disk Array Subsystem Disk Array Subsystem
(Rack Mounted) 7137–513			Disk Array Subsystem Disk Array Subsystem
7137-513   X   Disk Array Subsystem (3.94 — 13.77 GB) (Rack Mounted) 7137-514   X   Disk Array Subsystem (8.39 — 29.36 GB) (Rack Mounted) 7137-515   X   Disk Array Subsystem (8.39 — 29.36 GB) (Rack Mounted) 7204-001   X   Portable Disk Drive (4.5GB Only) 7204-010   X   1GB Disk Drive (4.5GB Only) 7204-011   X   1.1GB Disk Drive (4.5GB Only) 7204-112   X   1.1GB Disk Drive (4.5GB Only) 7204-113   X   2.2 GB Fast/Wide Disk Drive (7204-139   X   9.1 GB Fast/Wide Disk Drive (7204-315   X   2.2 GB Fast/Wide Disk Drive (7204-315   X   2.2 GB Disk Drive (7204-320   X   3.20MB Disk Drive (7204-320   X   3.20MB Disk Drive (7204-325   X   4.5GB Differential Fast/Wide Disk Drive (7204-315   X   2.2 GB Disk Drive (7204-315   X   3.2 GB Disk Drive (7204-315			Disk Array Subsystem (1.97 — 6.91 GB)
7137-514   X   Disk Array Subsystem (8.39 — 29.36 GB) (Rack Mounted) 7137-515   X   Disk Array Subsystem 7203-001   X   Portable Disk Drive (4.5GB Only) 7204-001   X   1GB Disk Drive (4.5GB Only) 7204-010   X   1GB Disk Drive (4.5GB Only) 7204-011   X   1.1GB Disk Drive (7204-113   X   2.2 GB Fast/Wide Disk Drive (7204-134   X   4.5 GB Fast/Wide Disk Drive (7204-135   X   2GB Fast/Wide Disk Drive (7204-315   X   2GB Fast/Wide Disk Drive (7204-316   X   2GB Fast/Wide Disk Drive (7204-320   X   2.2GB Disk Drive (7204-325   X   2.2GB Disk Drive (7204-325   X   4.5GB Differential Fast/Wide Disk Drive (7204-325   X   4.5GB Differential Fast/Wide Disk Drive (7204-339   X   2.2GB Disk Drive (7204-315   X   2.2GB Disk Drive (7204-315   X   3.2GB Disk Drive	7137–513	X	Disk Array Subsystem (3.94 — 13.77 GB)
7203-001	7137–514	X	Disk Array Subsystem (8.39 — 29.36 GB)
7204—001 X 1GB Disk Drive 7204—100 X 1GB Disk Drive 7204—112 X 1.1GB Disk Drive 7204—113 X 2.2 GB Fast/Wide Disk Drive 7204—114 X 4.5 GB Fast/Wide Disk Drive 7204—115 X 2GB Fast/Wide Disk Drive 7204—215 X 2GB Disk Drive 7204—215 X 2GB Fast/Wide Disk Drive 7204—317 X 2.2 GB Fast/Wide Disk Drive 7204—320 X 320MB Disk Drive 7204—325 X 4.5 GB Differential Fast/Wide Disk Drive 7204—325 X 4.5 GB Differential Fast/Wide Disk Drive 7204—339 X 9GB — with Differential Bridge Box with 9.1 GB Hard Disk Drive 7204—315 X Serial Link Subsystem 9333—010 X Serial Link Subsystem 9333—500 X Serial Link Subsystem 9333—501 X Serial Link Subsystem 9333—501 X Serial Link Subsystem 9334—010 X Drawer Expansion Unit			Disk Array Subsystem Portable Disk Drive (4.5GB Onlv)
7204-112	7204-001	X	1GB Disk Drive
7204—114 X 4.5 GB Fast/Wide Disk Drive 7204—215 X 2GB Disk Drive 7204—315 X 2GB Fast/Wide Disk Drive 7204—317 X 2.2GB Differential Fast/Wide Disk Drive 7204—320 X 320MB Disk Drive 7204—325 X 4.5GB Differential Fast/Wide Disk Drive 7204—325 X 9GB — with Differential Bridge Box with 9.1GB Hard Disk Drive 7204—315 X With Differential Bridge Box with 9.1GB Hard Disk Drive 9333—010 X Serial Link Subsystem 9333—500 X Serial Link Subsystem 9333—501 X Serial Link Subsystem 9333—501 X Serial Link Subsystem 9333—501 X Serial link Subsystem 9334—010 X Drawer Expansion Unit	7204–112	X	1.1GB Disk Drive
7204—215 X 2GB Disk Drive 7204—315 X 2GB Fast/Wide Disk Drive 7204—320 X 320MB Disk Drive 7204—325 X 4.5GB Differential Fast/Wide Disk Drive 7204—325 X 4.5GB Differential Fast/Wide Disk Drive 7204—339 X 9GB — with Differential Bridge Box with 9.1GB Hard Disk Drive 7204—315 X With Differential Bridge Box with 9.1GB Hard Disk Drive 9333—010 X Serial Link Subsystem 9333—010 X Serial Link Subsystem 9333—500 X Serial Link Subsystem 9333—501 X Serial Link Subsystem 9333—010 X Drawer Expansion Unit			
7204—315 X 2GB Fast/Wide Disk Drive 7204—327 X 2.GB Differential Fast/Wide Disk Drive 7204—325 X 4.5GB Differential Fast/Wide Disk Drive 7204—339 X 9GB — with Differential Bridge Box with 9.1GB Hard Disk Drive 7204—315 X With Differential Bridge Box with 9.1GB Hard Disk Drive 9333—010 X Serial Link Subsystem 9333—501 X Serial Link Subsystem 9333—501 X Serial Link Subsystem 9333—501 X Serial Link Subsystem 9333—010 X Serial Link Subsystem 9334—010 X Drawer Expansion Unit			
7204-320   X   320MB Disk Drive 7204-325   X   4.5GB Differential Fast/Wide Disk Drive 7204-339   X   9GB — with Differential Bridge Box with 9.1GB Hard Disk Drive 7204-315   X   With Differential Bridge Box with 9.1GB Hard Disk Drive 9333-010   X   Serial Link Subsystem 9333-500   X   Serial Link Subsystem 9333-501   X   Serial Link Subsystem 9333-501   X   Serial Link Subsystem 9334-010   X   Drawer Expansion Unit	7204–315	X	2GB Fast/Wide Disk Drive
9.1GB Hard Disk Drive 7204-315 X With Differential Bridge Box with 9.1GB Hard Disk Drive 9333-010 X Serial Link Subsystem 9333-500 X Serial Link Subsystem 9333-501 X Serial Link Subsystem 9334-010 X Drawer Expansion Unit	7204–320	X	320MB Disk Drive
7204-315 X With Differential Bridge Box with 9.1GB Hard Disk Drive 9333-010 X Serial Link Subsystem 9333-011 X Serial Link Subsystem 9333-501 X Serial Link Subsystem 9333-501 X Serial link Subsystem 9334-010 X Drawer Expansion Unit	7204–325 7204–339		9GB — with Differential Bridge Box with
9333-011   X   Serial Link Subsystem 9333-500   X   Serial Link Subsystem 9333-501   X   Serial link Subsystem 9334-010   X   Drawer Expansion Unit		1 1	With Differential Bridge Box with 9.1GB Hard Disk Drive
9333-501   X   Serial link Subsystem 9334-010   X   Drawer Expansion Unit			
9334-010  X  Drawer Expansion Unit	9333–500	X	Serial Link Subsystem
9334-011 X Drawer Expansion unit	9334–010	X	Drawer Expansion Unit
	9334–011	X	Drawer Expansion unit

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	J 5	X = Supported Device
Machine Type-	0	
Model		Description
	_	Displays
3151–310	χ	ASCII Display Station (Green, ASCII) ASCII Display Station (Amber, ASCII)
3151–410  3153–BA3	X	ASCII Display Station (Amber, ASCII) InfoWindow (R) II ASCII Display Station
3153-BG3	x	(Amber/RS-232) InfoWindow II ASCII Display Station
	H	(Green/RS-232)
3153-BW3	Х	<pre>InfoWindow II ASCII Display Station   (White/RS-232)</pre>
	_	SCSI Devices
3995–063	Х	Optical Library Dataserver (2 Drives)
3995–163  3995–A63	X	Optical Library Dataserver (4 Drives) Optical Library Dataserver (1 Drive)
3995–C60	X	Optical Library Dataserver (1 Drive)
3995–C62  3995–C64	X	Optical Library Dataserver Optical Library Dataserver
3995-066	X	Optical Library Dataserver Optical Library Dataserver
3995–C68  7209–001	X	Optical Disk Drive
7209–002 7209–003	X	Optical Disk Drive Optical Disk Drive
7210–001	X	CD—ROM Drive
7210–005 7210–010	X	CD—ROM Drive CD—ROM Drive (Quad Speed)
7210–015	X	CD-ROM Drive (8x Speed)
		Tape Drives
3490-C11* 3490-C1A*		Magnetic Tape Subsystem Magnetic Tape Subsystem
3490-C22*	X	Magnetic Tape Subsystem Magnetic Tape Subsystem Magnetic Tape Subsystem
3490–C2A*  3490–E11*		Magnetic Tape Subsystem
3490_F00*		Magnetic Tape Subsystem With Differential Single Drive Unit in
3490-F01*	Х	3490 Tape Drive 1/2-Inch, 18/36 Track, with Differential
3490_F11*	X	Floor Model with 3490 Tape Drive 1/2-Inch, 18/36 Track, with Differential
3494-D10*	<sub>x</sub>	Rack Model with 3490 Tape Drive Tape Library Dataserver (Tape Drive Unit)
3494-D12*	X	Tape Library Dataserver (Tape Drive Unit)
3494-D14*  3494-L10*		Tape Library Dataserver (Tape Drive Unit) Tape Library Dataserver
3494-L12*	X	Tape Library Dataserver
3494-L14* 3494-S10*		Tape Library Dataserver Tape Library Dataserver (Storage Unit)
3570-B00*	İχİ	Tape Subsystem
3570-B01* 3570-B02*	X	Tape Subsystem Tape Subsystem (2 Drives)
3570-B11*	X	Tape Subsystem Tape Subsystem
3570 <u>–</u> B12*  3590 <u>–</u> B11*	X	High-Performance Tape Subsystem
7206–001 7206–005	X	2GB 4 mm Tape Drive 4GB 4 mm Tape Drive
7207–001	X	150MB 1/4—inch Tape Drive
7207–011	X	525MB 1/4—inch Tape Drive

\* Planned Availability June 6, 1997, for supported attachment to the J50.

	J   5	X = Supported Device
Machine Type- Model	0	Description
	X X X X	13GB 1/4—inch Tape Drive 2.3GB 8 mm Tape Drive 5GB 8 mm Tape Drive
7331–205 7331–305	X	8 mm Tape Library 20GB, 8 mm Tape Drive — with Differential Library with Internal 8 mm 20/40GB Tape Drive 4 mm DDS-2 Tape Autoloader
7336–205 9348–012	X X	
		Expansion Cabinets
7012–G02 7015–R00	X X	Expansion Cabinet ROO System Rack

# **Publications**

The following publications will be shipped with the RS/6000 Model J50. Additional copies are available.

Title	Order Number
7013 J Series Base Unit Setup Procedures	SA23-2723
7013 J Series Operator Guide	SA23-2724
7013 J Series Service Guide	SA23-2725
POWERstation™ and POWERserver® Common Diagnostics and Service Guide	SA23-2687
AIX and Related Products  Documentation Overview	SC23-2456
RS/6000 System Unit Safety Information	SA23-2652
The following publications are available. contact your IBM representative.	To order,
Title	Order Number
7013 J Series Base Unit	
	Number
7013 J Series Base Unit Setup Procedure	Number SA23-2723
7013 J Series Base Unit Setup Procedure 7013 J Series Operator Guide	Number SA23-2723 SA23-2724
7013 J Series Base Unit Setup Procedure 7013 J Series Operator Guide 7013 J Series Service Guide POWERstation and POWERserver Common	Number SA23-2723 SA23-2724 SA23-2725
7013 J Series Base Unit Setup Procedure 7013 J Series Operator Guide 7013 J Series Service Guide POWERstation and POWERserver Common Diagnostics and Service Guide AIX and Related Products	Number SA23-2723 SA23-2724 SA23-2725 SA23-2687

The System Library Subscription Service (SLSS) is available by product number and subject code. Customers currently subscribing to SLSS will receive publication updates automatically.

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## **Technical Information**

## Specified Operating Environment

#### **Physical Specifications**

IBM RS/6000 Model J50

Width: 360 mm (14.7 in) Depth: 750 mm (29.5 in) Height: 610 mm (24.0 in) Base weight: 43.5 kg (100 lb)

Fully configured weight: 84 kg (184 lb)

#### Operating Environment

Temperature: 16° to 32°C (60° to 90°F)

Relative humidity: 8% to 80%

Maximum wet bulb: 23°C (73°F) maximum

Sound power: - 6.0 Bels Idle 6.2 Bels Operating

#### **Power Supply**

Voltage: 100 to 125 V, 200 to 240 V Nominal Same Auto Ranging; 50/60Hz

Power supply: 780 watts output (maximum)

Thermal output: 2765 Btu per hour Power source loading: 0.9 kVA

**EMC Conformance Classification:** This equipment is subject to FCC rules and shall comply with the appropriate FCC rules before final delivery to the buyer or centers of distribution.

U.S.: FCC CFR47 Class A

Germany: IOP

Europe: CISPR 22 EN55022 Class A Japan: VCCI-1

## Environmental Impact Assessment: Number 617P-3

The RS/6000 models were developed in compliance with IBM corporate policy letter number 139 (Environmental

Product Safety/Country Testing/Certification

U.S.: UL 1950

Canada: CSA C22.2 950-M89 Germany: EN60-950 (IEC950)

**General Requirements:** Compliance with IBM Corporate Bulletin C-B 0-2594-000 Statement of Conformity of IBM Product to External Standard (Suppliers Declaration) Telecom Environmental Testing (Safety and EMC).

RS/6000 models and applicable features meet the environmental testing requirements of the country TELECOM. The testing and approval process is ongoing.

Country	Environmental Safety	Test EMC
Canada Chile Denmark Finland France Hong Kong Ireland Italy Japan Korea	CSA Telecom DEMKO EIF LCIE Telecom Telecom Telecom Telecom Telecom	LCIE

Country	Environmental Safety	Test EMC
Malaysia Mexico Netherlands New Zealand Spain	SIRIM Telecom Telecom Telecom Ministry of Industry	Telecom
Switzerland U.K.	SEV BABT	

Hardware Requirements: IBM-supported ASCII terminal and cable.

Software Requirements: AIX Version 4.1.5 (5765-C34) or a later modification level of AIX Version 4.1 for Servers.

AIX Version 4.2.1 (5765-C34) or a later modification level of AIX Version 4.2. for Servers.

Compatibility: You can upgrade the following 500/JXX series server models to the Model J50 PowerPC Server:

Model	
	То
	J50 J50 J50 J50 J50 J50 J50 J50 J50 J50
	Model

The following Qs and As provide details on the contents of the J50 model conversion shipment group and the additional features you will need to order or have available before performing the upgrade. The Qs and As also discuss which existing features are supported and offer several options for using existing memory when upgrading to the J50.

What is contained in the 5XX uni-model conversion shipment group?: The upgrades to the Model J50 contain the following items:

- One dual PowerPC (two-way) 604e 200MHz processor card (#9402)
- J50 chassis with customer's existing serial number
- Installation instructions
- New diagnostics
- New publications

Your existing supported disk, media devices, and adapters can be transferred to the new Model J50 system. The replaced chassis and main circuit boards become the property of IBM and must be returned to IBM. Optional features of the replaced system will either be installed in the new system or returned to you.

197-063 -8What is contained in the J30/J40 SMP model conversion shipment group?: The upgrades to the Model J50 contain the following items:

- One dual PowerPC (two-way) 604e 200MHz processor card (#9402)
- Central Electronics Complex (CEC)
- Required prerequisite engineering changes (ECs)
- New Logo
- Installation instructions
- New diagnostics
- New publications

Your existing supported disk, media devices, and adapters can be transferred to the new Model J50 system. The replaced chassis and main circuit boards become the property of IBM and must be returned to IBM. Optional features of the replaced system will either be installed in the new system or returned to you.

What additional features will I need to order?: Upgraded machines must contain the same or equivalent base features as the Model J50 at the conclusion of the upgrade.

These items must be installed or available with the upgrade:

- SMP-compatible memory cards with a minimum of 256MB of memory
- SCSI-2 Fast/Wide Differential Adapter
- CD-ROM drive
- 4GB of 3.5-inch, 8-bit or 16-bit SCSI-2 disk drives with hot-pluggable disk enclosures

**Note:** The Model J50 uses hot-pluggable disk bays in place of the disk bays used in the 500 series systems. For an additional charge, 8-bit and 16-bit hot-pluggable disk enclosures are available to convert your supported SCSI 3.5-inch disk drives into modular packages for installation into the Model J50. The Model J50 supports up to nine disk drives when upgrading from a 5XX or JXX system. (All rear disk bays may be populated with 4.5GB or less capacity drives.)

If additional hardware is required for the upgrade, it must be purchased with the upgrade or be available at the time of the upgrade. It will be necessary for an IBM representative to go on site to determine the specific RISC system configuration. This is necessary to ensure all of the required engineering prerequisites are sent in conjunction with the upgrade kit. The specifics regarding the prerequisite information required will be forwarded to the local IBM office upon receipt of a model J50 upgrade order.

Some features on the existing 500/JXX series models are not supported on the Model J50. Refer to the **Feature Matrix** for a listing of supported and non-supported features

Before accepting your order, IBM will advise you of all features that will not be supported as a result of upgrading your machine. Non-supported features remain your property and are not returned to IBM.

**Memory:** IBM offers reduced-price memory for customers who are converting from an installed 5XX or SMP J30/J40 system to a J50. Customers may order via RPQ 8A1072 and one or more of the following feature numbers: 4185, 4186, or 4187 reduced-price memory for their J50. The previously installed memory will become the property of IBM upon completion of the upgrade.

#### Planning Information

Cable Orders: No cables required.

**Accessories and/or Supplies:** Supplies can be purchased from LEXMARK International Supplies Dealers.

#### Security, Auditability, and Control

Security and auditability features of the J50 systems include:

- Physical security that is provided by a key lock that helps prevent cover removal when locked.
- A three-position MODE switch that helps provide logic security for the system.

Otherwise, these products use the security and auditability features of the host hardware, software, and application software.

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communications facilities.

#### **Terms and Conditions**

This product is available for purchase under the terms of the IBM Customer Agreement (ICA).

IBM hardware products are manufactured from new parts, or new and used parts. In some cases, the hardware product may have been previously installed. Regardless, IBM's warranty terms apply.

Volume orders: Contact your IBM representative.

IBM Credit Corporation Financing: Yes

Warranty Period: One year

Warranty Service: IBM On-Site Repair (IOR)

Maintenance Service: IOR
Usage Plan Machine: No

IBM Hourly Service Rate Classification: Two

Volume Maintenance Option: No

**Mid-Range System Option:** The announced product is an eligible machine for the Mid-Range System Option of the ICA.

Eligible	Disco	ount
Туре	Three-Year	Five-Year
7013	12%	17%

Corporate Service Option: The announced product is an eligible machine for the Corporate Service Option of the ICA

	Disco	ount
Option	Three-Year	Five-Year
Network System	15% 12%	20% 17%

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Extended Maintenance Option: Yes

Central Facility Maintenance Service (CFMS) Option: No

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.

Rental Offering: No

Product Available: Yes

Field-Installable Features: Yes

Model Conversions: Yes

Customer Setup: No

Graduated Charges: Yes

Group number: F5

License Agreement for Machine Code: Yes

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

allowance.

# Charges

Description	Feature Number	Purchase Price	MMC <sup>1</sup> Monthly	Initial/ MES/ Both
RS/6000 7013-J50				
RS/6000 Machine Type 7013-J50		\$54,000	\$490	
ISDN, Basic Rate I/F, MCA	2707	995		Both
10/100 Mbps Ethernet TP MCA Adapter	2994	795		Both
4.5GB SCSI-2 Fast/Wide	3001	2,700		Both
Disk Drive Module 9.1GB SCSI-2 Fast/Wide	3011	5,100		Both
Disk Drive Module		,		
9.1GB SCSI-2 Fast/Wide Disk Drive Module Select	3012	1.350		Initial
1GB SMP DIMMS on 1GB	4162	17,000		Initial
Card Select (#9165) 256MB SMP DIMMS on 1GB Card	4165	10 240		Both
256MB SMP DIMM Kit	4166	10,240 6,400		Both
1GB SMP DIMMS on 1GB Card	4167	29,500		Initial
(Factory Only)		•		
256MB SMP DIMMS on 1GB Card,	4185	7,175		MES
(Model Upgrade Only,				
RPQ Prerequisite)	4400	4.400		МЕО
256MB SMP DIMM Kit,	4186	4,480		MES
(Model Upgrade Only, RPQ Prerequisite)				
1GB SMP DIMMS on 1GB Card,	4187	20,650		MES
(Model Upgrade Only,	4101	20,000		WILO
RPQ Prerequisite)				
604e SMP 2-Way, 200MHz,	4324	12,000	120	Both
2MB/Processor L2		•		
604e SMP 2-Way, 200MHz,	4336*	10,000	120	MES
2MB/Processor L2, MES				
(601/604->604e)				
Base 4.5GB Fast/Wide Disk	9138	NC		Initial
Drive Module				
Base 256MB SMP DIMMS	9165	NC		Initial
on 1GB Card	0.400	NC		Initial
604e SMP 2W, 200MHz, Base, 2MB/Processor L2	9402	INC		muai
<i></i> // 1000000				

<sup>\*</sup> If field installed on a purchased machine, parts removed or replaced become the property of IBM and must be returned.

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<sup>&</sup>lt;sup>1</sup> Minimum Monthly Maintenance Charge

	Feature	Purchase	Initial/ MES/
Description	Number	Price	Both
CCS Customer Service Specify (U.S.)	0986	NC	Initial
Keyboard — U.S. English Soft Touch (U.S./Canada Only)	1110	\$ 215	Both
Network Terminal Accelerator — 256 Session	2402	4,500	Both
Network Terminal Accelerator — 2,048 Session	2403	7,500	Both
Enhanced SCSI-2 Differential Fast/Wide Adapter/A	2412	1,370	Both
SCSI-2 Fast/Wide Adapter/A SCSI-2 Differential	2415 2416	1,070 1,370	Both Both
Fast/Wide Adapter/A SCSI-2 Differential Y-Cable	2422	224	Both
SCSI-2 Differential 1-Cable	2422	108	Both
System-to-System Cable	0	.00	20
0.6 m 16-bit SCSI-2	2424	108	Both
System-to-System Cable 2.5 m 16-bit SCSI-2	2425	130	Both
System-to-System Cable 16-bit Y-Cable for	2426	445	Both
SCSI-2 Differential			
Fast/Wide Adapter/A 8-bit Y-Cable for	2427	425	Both
SCSI-2 Differential	2721	420	Dotti
Fast/Wide Adapter/A			
16-bit IBM SCSI-2 Fast/Wide	2435	150	Both
Adapter/A to Dual-Ported Device Cable			
16-bit IBM SCSI-2	2436	150	Both
Differential Fast/Wide			
Adapter/A to Dual-Ported Device Cable			
8-bit IBM SCSI-2 Fast/Wide	2437	125	Both
Adapter/A to Dual-Ported			
Device Cable	0.400	405	Dath
8-bit IBM SCSI-2 Differential Fast/Wide Adapter/A to	2438	125	Both
Dual-Ported Device Cable			
8-bit IBM SCSI-2 Fast/Wide	2439	145	Both
Adapter/A to Single-Ported			
Device Cable SCSI Cable to Internal Devices	2441	75	Both
Tray-Loading CD-ROM Module	2621	850	Both
POWER GXT150M Graphics Adapter	2650	1,895	Both
4-Port Multiprotocol	2700	2,600	Both
Communications Controller Multiprotocol Attachment	2702	117	Both
Cable — V.35	2102		Dom
Multiprotocol Attachment Cable — X.21	2704	117	Both
4-Port Multiprotocol	2705	500	Both
Interface Cable Multiprotocol Modem Attachment Cable —	2706	93	Both
EIA-232/V.24	0700	4.005	Dath
FDDI-Fiber Dual-Ring Upgrade FDDI-Fiber Single-Ring Adapter	2723 2724	1,995 3,995	Both Both
FDDI-Fiber Single-Ring Adapter	272 <del>4</del> 2725	3,495	Both
FDDI-STP Dual-Ring Upgrade	2726	1,495	Both
Keyboard/Mouse Attach Card	2734	300	Both
S/390 ESCON Channel Emulator	2754	10,000	Both
Block Multiplexer Channel Adapter	2755	4,400	Both
ESCON Control Unit Adapter	2756	10,000	Both
·		•	

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			Initial/
Description	Feature Number	Purchase Price	MES/ Both
Block Multiplexer Channel	2757	\$ 700	Both
Adapter Cable Block Multiplexer Channel Cable Assembly	2758	900	Both
System/370 Channel Emulator/A	2759	3,500	Both
SCSI Controller Cable	2832	315	Both
SCSI High-Performance External I/O Controller	2835	1,245	Both
SCSI-2 Controller Cable	2836	195	Both
Cable Option EIA-530 RS-422	2923	575	Both
ARTIC960 Coprocessor (4MB)	2924 2926	3,495 575	Both
Cable Option ISO 4902 V.36 Cable Option ISO 4903 X.21	2926 2927	575 575	Both Both
ARTIC960 Coprocessor,	2929	3,495	Both
8-Port — EIA-232			
8-Port Asynchronous	2930	832	Both
Adapter — EIA-232 Asynchronous Terminal/Printer Cable — EIA-232	2934	45	Both
ARTIC960 Coprocessor,	2935	3,495	Both
6-Port V.36	2000	0, 100	20
Asynchronous Cable	2936	73	Both
EIA-232/V.24 ARTIC960 Coprocessor, 8-Port X.21	2938	3,495	Both
ARTIC960 8-Port EIA-232 Cable	2939	365	Both
8-Port Asynchronous	2940	936	Both
Adapter — EIA-422-A	0044	540	5.4
ARTIC960 6-Port V.36 Cable ARTIC960 6-Port X.21 Cable	2941 2942	510 325	Both Both
Asynchronous Terminal	2942	130	Both
Cable — EIA-422-A	_0.0	.00	20
16-Port Asynchronous Adapter — EIA-232	2955	1,125	Both
16-Port Asynchronous Adapter — EIA-422-A	2957	1,550	Both
X.25 Interface Co-Processor/2 Adapter	2960	1,570	Both
X.25 Attachment Cable X.21 —3 meter (10 ft)	2965	104	Both
X.25 Attachment Cable	2966	104	Both
V.24 — 3 meter (10 ft) X.25 Attachment Cable	2967	192	Both
V.35 — 3 meter (10 ft)	_00.		20
Auto Token-Ring	2972	850	Both
LANStreamer 32 MC Adapter X.25 Attachment Cable	2976	150	Both
X.21 — 6 meter (20 ft)	2970	150	DOIII
X.25 Attachment Cable	2977	150	Both
V.24 — 6 meter (20 ft)	0070	000	5.4
X.25 Attachment Cable V.35 — 6 meter (20 ft)	2978	239	Both
TURBOWAYS 155 ATM Adapter	2989	2,695	Both
3270 Connection	2990	618	Both
Adapter — U.S.	0000	505	5.4
Ethernet/FDX 10 Mbps	2992	595	Both
TP/AUI MC Adapter Ethernet High-Performance	2993	595	Both
BNC MC Adapter			
Multiport Interface Cable	2995	384	Both
16-Port Interface Cable — EIA-232	2996	295	Both
16-Port Interface	2997	639	Both
Cable — EIA-422-A	-		
PC Parallel Printer Cable	3100	48	Both
Serial to Serial Port Cable for Drawer/Drawer	3124	80	Both
Cable 101 Diawei/Diawei			

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	Feature	Purchase	Initial/ MES/
Description	Number	Price	Both
Serial to Serial Port	3125	\$ 80	Both
Cable for Rack/Rack SCSI Device to Device Cable	3130	78	Both
P70 Color Monitor	3613	1,485	Both
P200 Color Monitor	3614	2,660	Both
P201 Color Monitor	3615	3,660	Both
13W3 to 15-Pin D-Shell	4213	100	Both
Converter Cable			
13W3 to 60/77Hz			
_Display Cable	4214	105	Both
Ethernet 10BaseT Transceiver	4224	195	Both
Sun Compatible Display	4227	100	Both
Converter Cable 13W3 to POWERdisplay 16S	4229	165	Both
Display Cable	4229	103	Dotti
13W3 to 13W3 Display Cable	4234	100	Both
Software Preinstall	5005	NC	Initial
Keyboard — 101 Keys (U.S.)	6010	195	Both
Keyboard — 102 Keys			
Canadian French	6012	280	Both
French	6015	360	Both
German	6016	360	Both
Italian Spanish	6017 6021	360 360	Both Both
Keyboard —106 Keys	6030	325	Both
Japanese — Kanji	0000	020	Dotti
Three-Button Mouse	6041	75	Both
Internal 8 mm 5/10GB	6138	5,695	Both
Tape Module			
Internal 4 mm 4/8GB	6139	2,995	Both
Tape Module	0.475	0.400	Б
Cluster Power Controller	6175	3,100	Both
Null Modem Cable: CPC to TTY Null Modem Cable: CPC to CPC	6176 6177	70 75	Both Both
Null Modern Cable: CPC to CPU	6178	75 45	Both
High-Performance Subsystem	6212	4,000	Both
Adapter (40/80 MBps)		,	
Enhanced 4-Port, SSA,	6216	2,000	Both
8 Initial, MCA			
SSA 4-port RAID Adapter	6217	3,250	Both
Ultimedia Audio Adapter	6302	295	Both
Digital Trunk Dual Adapter Media to Disk Bay Conversion	6305 6511	2,400 20	Both Both
Hardware	0311	20	Dotti
Hot-Swap 8-bit Disk Enclosure	6514	500	Both
Hot-Swap Media Enclosure	6515	500	Both
Hot-Swap 16-bit Disk Enclosure	6516	500	Both
Realtime Interface Co-Processor:			
Portmaster Adapter/A (1MB)	7006	1,595	Both
8-Port RS-232	7042	627	Both
Interface Board/A 8-Port RS-422	7044	673	Both
Interface Board/A	7044	673	DUIII
6-Port V.35 Interface	7046	1,227	Both
Board/A	70.10	.,	20111
6-Port X.21 Interface			
Board/A	7048	1,000	Both
6-Port V.35 Cable	7106	848	Both
V.35 Network Cable	7107	150	Both
8-Port EIA-232/422 Cable	7108	375	Both
6-Port X.21 Cable X.21 Network Cable	7110 7111	700 125	Both Both
128-Port Asynchronous Controller	8128	1,295	Both
Remote Asynchronous Node	8130	1,495	Both
16-Port EIA-232 (U.S.)	• •	- ,	
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Description	Feature Number	Purchase Price	Initial/ MES/ Both
128-Port Asynchronous			
Controller Cable, 4.5 meter	8131	\$ 60	Both
	8132	\$ 60 40	Both
23 cm (9-inch) RJ-45 to DB-25	8133	40 120	Both
Converter Cable	8133	120	Both
64-Port to 128-Port	8135	45	Both
Pin-Out Converter	0135	45	DOIII
Rack Mountable Remote	8136	1,995	Both
Asynchronous Node	0130	1,995	Dotti
16-Port EIA-232			
Southern Hemisphere	9004	NC	Initial
Specify for Monitors	3004	110	miliai
Base Enhanced SCSI-2	9212	NC	Initial
Differential Fast/Wide	02.12		miliai
Adapter/A			
3.5-Inch 1.44MB Diskette	9221	NC	Initial
Drive Specify	<del></del> -		
Language Group	9300	NC	Initial
Specify -U.S. English			
Base SCSI Cable to	9441	NC	Initial
Internal Devices			
Base Quad-Speed Tray-Loading	9607	NC	Initial
CD-ROM Module			
Language Group	9712	NC	Initial
Specify — Canadian French			
Power Cord Specify —			
United States/Canada	9800	NC	Initial
Chicago (125 V, 15 A)	9986	NC	Initial
(1.8 m)(6 ft)			
CD-ROM Module Language Group Specify — Canadian French Power Cord Specify — United States/Canada	9712 9800	NC	Initial Initial

# Model Conversion Purchase Prices

	Model	Model Conversion
From	То	Purchase Price*
520	J50	\$34,900
52H	J50	34,900
530	J50	34,900
53E	J50	34,900
53H	J50	34,900
540	J50	34,900
550	J50	34,900
55E	J50	34,900
55S	J50	34,900
560	J50	34,900
56F	J50	34,900
55L	J50	34,900
570	J50	24,900
57F	J50	24,900
580	J50	24,900
58F	J50	24,900
58H	J50	24,900
590	J50	24,900
59H	J50	24,900
J30	J50	18,000
J40	J50	18,000

<sup>\*</sup> Parts removed or replaced become the property of IBM and must be returned.

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## **Call Now to Order**

To order, contact IBM North America Sales Call Center, your local IBM representative, or your IBM Business Partner™.

IBM North America Sales Call Center, our national direct marketing organization, can also arrange to put your name on the mailing list for catalogs of IBM products.

Phone: 800-IBM-CALL Fax: 800-2IBM-FAX

Internet: ibm\_direct@vnet.ibm.com

Mail: IBM North America Call Sales Center

Dept. RE010 P.O. Box 16848

Atlanta, GA 30321-0848

Reference: RE010

To identify your local IBM Business Partner or IBM representative, call 800-IBM-4YOU.

Note: Shipments will begin after the planned availability date.

#### Trademarks

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