



IBM System x3200 tower server for distributed enterprises, retail stores, or small to medium-sized businesses

Overview

An excellent choice for cost-sensitive small and medium business or distributed environments, System x3200 servers are easy to set up and use.

Value and performance

- Powerful Intel® Xeon or Pentium® D processors:
 - Xeon 3040, 3050, or 3060 processors with 1066 MHz FSB
 - Pentium D 915 or 945 dual-core processors at 2.8 or 3.4 GHz with 2 x 2 MB L2 cache and 800 MHz FSB
 - Optimized for EM64T to support 32- or 64-bit applications
- 512 MB or 1 GB of PC2-5300 CL5 ECC DDR2 SDRAM DIMM memory standard; 8 GB maximum
- Five expansion slots:
 - Three 32-bit/33 MHz PCI
 - Two PCI-Express (one x1 and one x8)
- Integrated Gigabit Ethernet controller
- Choice of HDD:
 - 3.5-inch Serial-ATA (SATA), or new higher reliability 3.5-inch SATA (nearline)
 - 3.5-inch Serial Attached SCSI (SAS) or 2.5-inch (SFF) SAS
- Seven drive bays
- Open bay models supporting simple-swap SATA, hot-swap SATA, or hot-swap SAS HDD
- Redundant hot-swap power supply models
- Select models include pre-installed Microsoft™ Small Business Server Standard Edition

Preview

IBM intends to offer an optional RAID 5 solution in fourth quarter 2006.

Previews provide insight into IBM plans and directions, but they are subject to change or withdrawal.

General availability, prices, ordering information, and terms and conditions will be provided when the product is announced.

At your control

Manageability and serviceability features help diagnose problems quickly.

- Base Systems Management with IPMI 1.5 compliance
- Text console redirect over LAN for monitoring vital system functions
- Automatic server restart (ASR) to restart server after operating system failure
- Monitoring of memory, thermal, or voltage faults
- Preboot eXecution Environment (PXE) and support for Wake on LAN®

At your service

Valuable services, utilities, and systems-management tools help improve productivity and get your server up and running quickly.

- IBM Director to manage System x3200 servers and other LAN assets
- ServerGuide⁴ utilities to assist loading of many popular network operating systems
- Warranty: One- and three-year parts, customer replaceable unit (CRU) or on-site labor⁵, limited warranty⁶; optional warranty service upgrades

Key prerequisites

- Monitor, keyboard, and mouse

Planned availability date

November 15, 2006

At a glance

Features of the System x3200 server include:

- Dual-core Xeon 3040, 3050, and 3060 server class processors at up to 1066 MHz front-side bus (FSB), based on the new Intel Core architecture
- Dual-core 915 and 945 Pentium D processors at up to 3.4 GHz¹ with 800 MHz front-side bus (FSB)
- 512 MB or 1 GB of 667 MHz PC2-5300 CL5 ECC DDR2 SDRAM DIMM system memory; 8 GB² maximum
- Integrated Serial-ATA (SATA) and Serial Attached SCSI (SAS) controllers, depending on model
- Rack support through a rack conversion kit option
- Five available I/O expansion slots
- Hardware-based RAID mirroring (RAID-0) and striping (RAID-1) standard or optional, depending on model, without consuming an I/O expansion slot
- Dedicated I/O slot for Remote Supervisor Adapter 2 — Slimline adapter
- Choice of bootable optical drives:
 - 48x-20x³ IDE CD-ROM
 - CD-RW/DVD combination drive
- One fixed 400-watt, voltage-sensing power supply or two redundant hot-swap 430-watt power supplies, depending on model
- System management support
- Integrated ATI graphics controller with 16 MB video memory

For ordering, contact:

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

800-IBM-CALL

Reference: SE001

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Description

Solid-performing server subsystems

This uniprocessor entry server delivers solid, economical performance by coupling dual-core Intel Pentium D or new Xeon processors at up to 3.4 GHz with high-speed PC2-5300 CL5 ECC DDR2 SDRAM DIMM memory, and SAS or SATA storage subsystems.

The x3200 server couples these dual-core processors with advanced features to produce a system which is an optimal choice for clients with applications which demand performance today, or for growing businesses which need to accommodate future performance growth.

The System x3200 server uses high-performance chipsets to optimize throughput from the processors to memory and I/O.

Standard System x3200 configurations

Model	Processor	Memory	Interface	Pre-Load	HDD	CD-ROM
4362-22x	2.8 GHz 915 4 MB L2 800 MHz	512 MB	S/S SATA	none	open bay 1	
4362-24x	2.8 GHz 915 4 MB L2 800 MHz	1024 MB	SATA/SAS HS#	none	open bay 1	
4362-32x	3.4 GHz 945 4 MB L2 800 MHz	512 MB	S/S SATA	none	open bay 1	
4362-42x	1.87 GHz 3040 2 MB L2 1066 MHz	512 MB	S/S SATA	none	open bay 1	
4362-43x	1.87 GHz 3040 2 MB L2 1066 MHz	1024 MB	S/S SATA	SBSSE	1x160 GB 1	
4362-44x	1.87 GHz 3040 2 MB L2 1066 MHz	1024 MB	SATA/SAS HS#	none	open bay 1	
4362-52x	2.13 GHz 3050 2 MB L2 1066 MHz	1024 MB	S/S SATA	none	open bay 1	
4362-56x	2.13 GHz 3050 2 MB L2 1066 MHz	1024 MB	SATA/SAS HS#*	none	open bay 1	
4362-57x	2.13 GHz 3050 2 MB L2 1066 MHz	1024 MB	SATA HS*	SBSSE	1x160 GB 1	
4362-62x	2.4 GHz 3060 2 MB L2 1066 MHz	1024 MB	SATA/SAS HS#	none	open bay 1	
4362-64x	2.4 GHz 3060 2 MB L2 1066 MHz	1024 MB	SATA/SAS HS#*	none	open bay 1	
4363-2Bx	2.8 GHz 915 4 MB L2 800 MHz	512 MB	S/S SATA	none	open bay 2	
4363-2Dx	2.8 GHz 915 4 MB L2 800 MHz	1024 MB	SATA/SAS HS#	none	open bay 2	
4363-3Bx	3.4 GHz 945 4 MB L2 800 MHz	512 MB	S/S SATA	none	open bay 2	
4363-4Bx	1.87 GHz 3040 2 MB L2 1066 MHz	512 MB	S/S SATA	none	open bay 2	
4363-4Cx	1.87 GHz 3040 2 MB L2 1066 MHz	1024 MB	S/S SATA	SBSSE	1x160 GB 2	
4363-4Dx	1.87 GHz 3040 2 MB L2 1066 MHz	1024 MB	SATA/SAS HS#	none	open bay 2	
4363-5Bx	2.13 GHz 3050 2 MB L2 1066 MHz	1024 MB	S/S SATA	none	open bay 2	
4363-5Fx	2.13 GHz 3050 2 MB L2 1066 MHz	1024 MB	SATA/SAS HS#*	none	open bay 2	
4363-5Gx	2.13 GHz 3050 2 MB L2 1066 MHz	1024 MB	SATA HS*	SBSSE	1x160 GB 2	
4363-6Bx	2.4 GHz 3060 2 MB L2 1066 MHz	1024 MB	SATA/SAS HS#	none	open bay 2	
4363-6Dx	2.4 GHz 3060 2 MB L2 1066 MHz	1024 MB	SATA/SAS HS#*	none	open bay 2	

Note: (1) CD-ROM (2) Combination drive

Universal keyed SAS backplane supports both SAS and SATA HDDs.

* Redundant power.

Additional features include:

- System board that supports high-speed 512 MB, 1 GB, and 2 GB PC2-5300 CL5 ECC DDR2 SDRAM DIMM memory
- Up to five slots: Three PCI 2.2 and two PCI-Express (x8 and x1) standard
- I/O ports:

- Six USB (four rear, two front)
- Integrated Gigabit Ethernet with RJ-45
- Two software-compatible serial ports
- One parallel port supporting devices using SSP, EPP, or ECP protocols, adhering to the IEEE 1284 standard
- PS/2® keyboard and mouse ports

- Full-duplex, Gigabit Ethernet PCI controller that speeds network communications to LAN clients

Expansion capacity and standard features

The System x3200 server is housed in a minitower (optionally rack mountable) that can economically handle expansion. This model features:

- Worldwide voltage-sensing power supply with auto restart that supports maximum configurations and minimizes operator intervention after a temporary power outage. Power supply choices:

- Single 400-watt
- Redundant 430-watt (hot-swap)

- Three full-speed fans plus one variable fan in each power supply that cools:

- Power supply
- Drive bays
- Microprocessor
- I/O

- 512 MB or 1 GB of standard PC2-5300 CL5 ECC DDR2 SDRAM DIMM memory

- Four DIMM sockets that support:

- Up to 8 GB of system memory
- Mixing memory sizes

- Up to five adapter card slots that support multiple adapters for network, systems management, or data storage

- Additional dedicated slots for hardware-based RAID 0, 1 adapter, and for the Remote Supervisor Adapter Slimline adapter cards

- Seven drive bays:

- One accessible 5.25-inch, half-high bay with optical drive

- One open, accessible 5.25/3.5-inch, half-high bay, supporting tape backup devices and second optical drive

- One accessible 3.5-inch, slim-high bay

- Four internal 3.5-inch, slim high bays; one HDD standard on some models

- Simple-swap SATA, hot-swap SATA, or hot-swap SAS HDDs:

- 3.5-inch simple-swap SATA HDD
- 3.5-inch hot-swap SAS or SATA HDD
- 2.5-inch hot-swap SAS

- Support for 15,000 rpm SAS HDDs

- Integrated ATI video with 16 MB of video memory

Systems management and control

System x3200 servers comply with the 2000 ATX implementation guidelines. These guidelines offer better control and manageability of a network.

Supported features include:

- Base Systems Management with IPMI 1.5 compliance
- Wake on LAN for existing LAN adapters to remotely turn the server on from an off state
- Wake on LAN supported on integrated Ethernet controller
- Flash EPROM write protection
- SMBus isolation that isolates one bus section and required system components during system power-down, to prevent current leakage into devices without power
- PXE support
- SM BIOS
- MAC address on PC box
- Remote Deployment Manager™

The System x3200 server also features IBM Director — a powerful, highly integrated systems management software solution built on industry standards and designed for ease of use. This product helps enable you to take control of your IT environment and manage physically dispersed IT assets more efficiently. It can potentially reduce costs through:

- Reduced downtime
- Increased productivity of IT personnel and end users
- Potentially reduced service and support costs

IT administrators can view the hardware configuration of remote systems in detail, and monitor the usage and performance of critical components, such as processors, HDDs, and memory.

IBM Director includes a portfolio of integrated server tools that work with the Remote Supervisor Adapter or other systems management monitoring functions. Typical functions and monitoring capabilities can include:

- Temperature
- Voltage
- Fan speed
- Diagnostic LEDs

IT administrators achieve comprehensive, virtual on-site control of xSeries® servers through the ability to remotely:

- Access the server often, regardless of its status
- Inventory and display detailed system and component information
- View server bootup during POST
- Browse and delete logs of events and errors
- Reset or power cycle the server
- Monitor and set thresholds on server health including:
 - Operating system load
 - POST time-out
 - Voltage
 - Temperature
- Set proactive alerts for critical server events including PFA on HDDs
- Define automated actions, such as:
 - Send an e-mail or page to an administrator
 - Execute a command or program

- Pop up an error message to the IBM Director console
- Flash BIOS
- Monitor and graph the use of server resources such as:
 - Memory
 - Processor
 - HDDs
- Identify potential performance bottlenecks and react to prevent downtime

IBM Director Agent provides integration into leading workgroup and enterprise systems management environments via upward integration modules (available from IBM and third parties). Advanced management capabilities built into xSeries servers are available through:

- Tivoli® Enterprise and Tivoli NetView®
- Computer Associates (CA) Unicenter TNG
- HP OpenView
- Microsoft SMS
- BMC Patrol
- NetIQ

World-class support tools and programs

The System x3200 server comes with tools and programs that help you purchase your server, get it running, and keep it running smoothly. IBM can help your company maintain ownership of technology leadership servers.

- The ServerProven⁷ program lets you confidently configure your server with various devices and operating systems. This Web-based program provides compatibility information from actual testing of the System x3200 server with various adapters and devices.
- The ServerGuide™ CD library includes online publications, utilities, and drivers that assist you in the loading of popular network operating systems.

SEO	Processor	Memory	Interface	Pre-load	HDD	CD-ROM
436222U	2.8 GHz 4 MB L2 800 MHz	915 1024 MB	S/S SATA	none	open bay	1
436224U	2.8 GHz 4 MB L2 800 MHz	915 1024 MB	SATA/SAS HS#	none	open bay	1
436232U	3.4 GHz 4 MB L2 800 MHz	945 512 MB	S/S SATA	none	open bay	1
436242U	1.87 GHz 2 MB L2 1066 MHz	3040 512 MB	S/S SATA	none	open bay	1
436243U	1.87 GHz 2 MB L2 1066 Mhz	3040 1024 MB	S/S SATA	SBSSE	1x160 GB	1
436244U	1.87 GHz 2 MB L2 1066 MHz	3040 1024 MB	SATA/SAS HS#	none	open bay	1
436252U	2.13 GHz 2 MB L2 1066 MHz	3050 1024 MB	S/S SATA	none	open bay	1
436256U	2.13 GHz 2 MB L2 1066 MHz	3050 1024 MB	SATA/SAS HS#*	none	open bay	1
436257U	2.13 GHz 2 MB L2 1066 MHz	3050 1024 MB	SATA HS*	SBSSE	1x160 GB	1
436262U	2.4 GHz 2 MB L2 1066 MHz	3060 1024 MB	SATA/SAS HS#	none	open bay	1
436264U	2.4 GHz 2 MB L2 1066 MHz	3060 1024 MB	SATA/SAS HS#*	none	open bay	1
43632Bx	2.8 GHz 4 MB L2 800 MHz	915 512 MB	S/S SATA	none	open bay	2
43632Dx	2.8 GHz 4 MB L2 800 MHz	915 1024 MB	SATA/SAS HS#	none	open bay	2
43633Bx	3.4 GHz 4 MB L2 800 MHz	945 512 MB	S/S SATA	none	open bay	2
43634Bx	1.87 GHz 2 MB L2 1066 MHz	3040 512 MB	S/S SATA	none	open bay	2
43634Cx	1.87 GHz 2 MB L2 1066 Mhz	3040 1024 MB	S/S SATA	SBSSE	1x160 GB	2
43634Dx	1.87 GHz 2 MB L2 1066 MHz	3040 1024 MB	SATA/SAS HS#	none	open bay	2
43635Bx	2.13 GHz 2 MB L2 1066 MHz	3050 1024 MB	S/S SATA	none	open bay	2
43635Fx	2.13 GHz	3050	1024 MB SATA/SAS HS#*	none	open bay	2

	2 MB	L2	1066 MHz					
43635Gx	2.13 GHz	3050	1024 MB	SATA	HS*	SBSSE	1x160 GB	2
	2 MB	L2	1066 MHz					
43636Bx	2.4 GHz	3060	1024 MB	SATA/SAS	HS#	none	open bay	2
	2 MB	L2	1066 MHz					
43636Dx	2.4 GHz	3060	1024 MB	SATA/SAS	HS#*	none	open bay	2
	2 MB	L2	1066 MHz					

Note: (1) CD-ROM (2) Combination drive

Universal keyed SAS backplane supports both SAS and SATA HDDs.

* Redundant power.

Product positioning

The System x3200 server is positioned as an affordable enterprise class platform of the System x™ uniprocessor server line. It is designed and packaged with features intended specifically for cost-conscious small and medium businesses, or for deployment in distributed environments and retail locations.

The System x3200 server combines leading industry-standard technologies, excellent internal data storage capacity, availability, and basic systems management and control features, into an attractively priced entry server. This uniprocessor server provides solid performance to support general-purpose network infrastructure, retail store, or e-mail and messaging applications.

Reference information

¹ GHz denotes the internal and/or external clock speed of the microprocessor only, not application performance. Many factors affect application performance.

² When referring to HDD or tape backup capacity, GB stands for one billion bytes. Total user capacity may vary depending on operating environments.

³ Actual playback speed will vary and is often less than the maximum possible.

⁴ The Microsoft Windows™ Preinstallation Environment software included as part of ServerGuide software, may be used for boot, diagnostic, setup, restoration, installation, configuration, test, or disaster recovery purposes only.

Note: The Microsoft Windows Preinstallation Environment software contains a security feature that will cause an end user customer's system to reboot without prior notification to the end user customer after 24 hours of continuous use of the Microsoft Windows Preinstallation Environment. During routine usage of ServerGuide, which does not usually require usage of the Microsoft Windows Preinstallation Environment software for such an extended time period, this condition should not occur.

⁵ You may be asked certain diagnostic questions before a technician is sent.

⁶ For information on the IBM Statement of Limited Warranty, visit

http://www.ibm.com/servers/support/machine_warranties/

Call 800-IBM-SERV (426-7378) or contact your IBM representative or reseller. Copies are available upon request.

⁷ IBM makes no warranties, expressed or implied, regarding non-IBM products and services that are ServerProven®, including but not limited to implied warranties of merchantability and fitness for a particular purpose. These products are offered and warranted solely by third parties, including those designated as ServerProven or ClusterProven®.

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Business Partner information

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

BP Attachment for Announcement Letter 106-748

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=106-748>

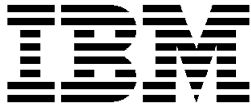
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IBM United States Announcement Supplemental Information

October 17, 2006

Publications

The following publications and CD-ROMs are shipped with the System x3200 server:

- *System x3200 Installation Guide* contains an introduction to the computer, installation and setup, installing options, reference information, and problem determination. The installation guide has easy-to-use text and pictorials to enable you to quickly set up your server.
- *ServerGuide™* contains online publications and drivers to support the System x3200 server. In addition, it includes a set of easy-to-use utilities with assisted installation via CD of several popular network operating systems.
- IBM Director systems management software is included.

Software versions, features, and functions shipped with this system may change as new releases become available or may be discontinued at any time.

The *System x3200 Installation Guide* and *Problem Determination and Service Guide*, in U.S. English versions, are available from

<http://www-307.ibm.com/pc/support/site.wss/pageRedirect.do>

Select Servers, then Server Family, and then click on Publications.

Services

IBM Integrated Technology Services

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

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

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

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

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

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

For details on education offerings related to specific products, visit

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

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

System x™ and BladeCenter® support services

Recommended core technical support

When you buy IBM System x technology, include the support services you need to help keep both your hardware and software working for you, day after day, at peak performance. It's your first step toward helping to protect your investment and sustain high levels of system availability. We offer service level and response-time options to fit your business needs, and we'll help you get started with a core support package that includes:

- **Continuous system monitoring**

Exclusive electronic monitoring that helps speed up problem-solving with automated, early detection of potential problems and system errors.

- **Hardware maintenance**

World-class remote and on-site hardware problem determination and repair services.

- **Software technical support**

Unlimited help line calls for fast, accurate answers to your questions during installation and throughout ongoing operations.

For more information, refer to

<http://www.ibm.com/servers/eserver/xseries/services.html>

Technical information

Specified operating environment

Physical specifications

	4362-22x 4363-2Bx	4362-24x 4363-2Dx
Operating system	None	None
Processor	Pentium(R) D 915	Pentium D 915
Internal speed	2.8 GHz	2.8 GHz
External speed	800 MHz	800 MHz
Number standard	1	1
Maximum	1	1
L2 cache (full-speed)	2 x 2 MB	2 x 2 MB
Memory (667 MHz SDRAM)	512 MB ECC	1024 MB ECC
DIMMs	1 x 512 MB	2 x 512 MB
DIMM sockets	4	4
Capacity	8 GB	8 GB
Video controller	SVGA, ATI	SVGA, ATI

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Memory	16 MB	16 MB
HDD controllers	SATA	HS SATA/SAS
Channels	1	1
Connector int.	4	4
Connector ext.	0	0
IDE controllers	Parallel	Parallel
Channels	1	1
Connector int.	1	1
Connector ext.	0	0
Fixed disk standard	0	0
Tape backup	Optional	Optional
Total bays	7	7
5.25/3.5-in half-high	2	2
3.5-in slim	5	5
Hot-swap	0	4
Internal capacity	2 TB (8)	2 TB (8)
Bays available	6	6
5.25/3.5-in half-high	1(9)	1(9)
3.5-in slim	4	3
Hot-swap	0	4
Total slots	5	5
PCI 2.2 (32/33 MHz)	3	3
PCI-X (64/100 MHz)	0	0
PCI-E (x8/x1)	2	2
Slots available	5	5
Management proc.	Optional	Optional
Ethernet controller	1 Gb	1 Gb
Optical drive (IDE)	(10)	(10)
Diskette drive	USB option	USB option
Power supply	400 W	400 W
Number standard	1	1
Hot-swap	No	No
Redundant power	No	No
Auto restart	Yes	Yes

4362-32x	4362-42x
4363-3Bx	4363-4Bx

Operating system	None	None
Processor	Pentium D 945	Xeon 3040
Internal speed	3.4 GHz	1.87 GHz
External speed	800 MHz	1066 MHz
Number standard	1	1
Maximum	1	1
L2 cache (full-speed)	2 x 2 MB	2 MB
Memory (667 MHz SDRAM)	512 MB ECC	512 MB ECC
DIMMs	1 x 512 MB	1 x 512 MB
DIMM sockets	4	4
Capacity	8 GB	8 GB
Video controller	SVGA, ATI	SVGA, ATI
Memory	16 MB	16 MB
HDD controllers	SATA	SATA
Channels	1	1
Connector int.	4	4
Connector ext.	0	0
IDE controllers	Parallel	Parallel
Channels	1	1
Connector int.	1	1
Connector ext.	0	0
Fixed disk standard	0	0
Tape backup	Optional	Optional
Total bays	7	7
5.25/3.5-in half-high	2	2
3.5-in slim	5	5
Hot-swap	0	0
Internal capacity	2 TB (8)	2 TB(8)
Bays available	6	6
5.25/3.5-in half-high	1(9)	1(9)
3.5-in slim	5	5
Hot-swap	0	0
Total slots	5	5
PCI 2.2 (32/33 MHz)	3	3
PCI-X (64/100 MHz)	0	0
PCI-E (x8/x1)	2	2
Slots available	5	5
Management proc.	Optional	Optional
Ethernet controller	1 Gb	1 Gb
Optical drive (IDE)	(10)	(10)
Diskette drive	USB option	USB option
Power supply	400 W	400 W
Number standard	1	1
Hot-swap	No	No
Redundant power	No	No
Auto restart	Yes	Yes

Operating system	SBS-SE	None
Processor (dual-core)	Xeon 3040	Xeon 3040
Internal speed	1.87 GHz	1.87 GHz
External speed	1066 MHz	1066 MHz
Number standard	1	1
Maximum	1	1
L2 cache (full-speed)	2 MB	2 MB
Memory (667 MHz SDRAM)	1 GB ECC	1 GB ECC
DIMMs	2 x 512 MB	2 x 512 MB
DIMM sockets	4	4
Capacity	8 GB	8 GB
Video controller	SVGA, ATI	SVGA, ATI
Memory	16 MB	16 MB
HDD controllers	SATA	HS SATA/SAS
Channels	1	1
Connector int.	4	4
Connector ext.	0	0
IDE controllers	Parallel	Parallel
Channels	1	1
Connector int.	1	1
Connector ext.	0	0
Fixed disk standard	1 x 160 GB	0
Tape backup	Optional	Optional
Total bays	7	7
5.25/3.5-in half-high	2	2
3.5-in slim	5	5
Hot-swap	0	4
Internal capacity	2 TB(8)	2 TB(8)
Bays available	5	6
5.25/3.5-in half-high	1(9)	1(9)
3.5-in slim	4	5
Hot-swap	0	4
Total slots	5	5
PCI 2.2 (32/33 MHz)	3	3
PCI-X (64/100 MHz)	0	0
PCI-E (x8/x1)	2	2
Slots available	5	5
Management proc.	Optional	Optional
Ethernet controller	1 Gb	1 Gb
Optical drive (IDE)	(10)	(10)
Diskette drive	USB option	USB option
Power supply	400 W	400 W
Number standard	1	1
Hot-swap	No	No
Redundant power	No	No
Auto restart	Yes	Yes

4362-52x	4362-56x
4363-5Bx	4363-5Fx

Operating system	None	None
Processor (dual-core)	Xeon 3050	Xeon 3050
Internal speed	2.13 GHz	2.13 GHz
External speed	1066 MHz	1066 MHz
Number standard	1	1
Maximum	1	1
L2 cache (full-speed)	2 MB	2 MB
Memory (667 MHz SDRAM)	1 GB ECC	1 GB ECC
DIMMs	2 x 512 MB	2 x 512 MB
DIMM sockets	4	4
Capacity	8 GB	8 GB
Video controller	SVGA, ATI	SVGA, ATI
Memory	16 MB	16 MB
HDD controllers	SATA	HS SATA/SAS
Channels	1	1
Connector int.	4	4
Connector ext.	0	0
IDE controllers	Parallel	Parallel
Channels	1	1
Connector int.	1	1
Connector ext.	0	0
Fixed disk standard	0	0
Tape backup	Optional	Optional
Total bays	7	7
5.25/3.5-in half-high	2	2
3.5-in slim	5	5
Hot-swap	0	4
Internal capacity	2 TB(8)	2 TB(8)
Bays available	6	6
5.25/3.5-in half-high	1(9)	1(9)
3.5-in slim	5	5
Hot-swap	0	4
Total slots	5	5
PCI 2.2 (32/33 MHz)	3	3
PCI-X (64/100 MHz)	0	0
PCI-E (x8/x1)	2	2
Slots available	5	5

Management proc.	Optional	Optional
Ethernet controller	1 Gb	1 Gb
Optical drive (IDE)	(10)	(10)
Diskette drive	USB option	USB option
Power supply	400 W	430 W
Number standard	1	2
Hot-swap	No	Yes
Redundant power	No	Yes
Auto restart	Yes	Yes
	4362-57x	4362-62x
	4363-56x	4363-6Bx
Operating system	SBS-SE	None
Processor (dual-core)	Xeon 3050	Xeon 3060
Internal speed	2.13 GHz	2.4 GHz
External speed	1066 MHz	1066 MHz
Number standard	1	1
Maximum	1	1
L2 cache (full-speed)	2 MB	4 MB
Memory (667 MHz SDRAM)	1024 MB	1024 MB
DIMMs	2 x 512 MB	2 x 512 MB
DIMM sockets	4	4
Capacity	8 GB	8 GB
Video controller	SVGA, ATI	SVGA, ATI
Memory	16 MB	16 MB
HDD controllers	HS SATA/SAS	HS SATA/SAS
Channels	1	1
Connector int.	4	4
Connector ext.	0	0
IDE controllers	Parallel	Parallel
Channels	1	1
Connector int.	1	1
Connector ext.	0	0
Fixed disk standard	1 x 160 GB	0
Tape backup	Optional	Optional
Total bays	7	7
5.25/3.5-in half-high	2	2
3.5-in slim	5	5
Hot-swap	4	4
Internal capacity	2 TB(8)	2 TB(8)
Bays available	5	6
5.25/3.5-in half-high	1(9)	1(9)
3.5-in slim	3	4
Hot-swap	3	4
Total slots	5	5
PCI 2.2 (32/33 MHz)	3	3
PCI-X (64/100 MHz)	0	0
PCI-E (x8/x1)	2	2
Slots available	5	5
Management proc.	Optional	Optional
Ethernet controller	1 Gb	1 Gb
Optical drive (IDE)	(10)	(10)
Diskette drive	USB option	USB option
Power supply	430 W	400 W
Number standard	2	1
Hot-swap	Yes	No
Redundant power	Yes	No
Auto restart	Yes	Yes

4362-64x
4363-6Dx

Operating system	None
Processor (dual-core)	Xeon 3060
Internal speed	2.4 GHz
External speed	1066 MHz
Number standard	1
Maximum	1
L2 cache (full-speed)	4 MB
Memory (667 MHz SDRAM)	1024 MB
DIMMs	2 x 512 MB
DIMM sockets	4
Capacity	8 GB
Video controller	SVGA, ATI
Memory	16 MB
HDD controllers	HS SATA/SAS
Channels	1
Connector int.	4
Connector ext.	0
IDE controllers	Parallel
Channels	1
Connector int.	1
Connector ext.	0
Fixed disk standard	0
Tape backup	Optional
Total bays	7
5.25/3.5-in half-high	2
3.5-in slim	5

Hot-swap	0
Internal capacity	2 TB(8)
Bays available	6
5.25/3.5-in half-high	1(9)
3.5-in slim	4
Hot-swap	4
Total slots	5
PCI 2.2 (32/33 MHz)	3
PCI-X (64/100 MHz)	0
PCI-E (x8/x1)	2
Slots available	5
Management proc.	Optional
Ethernet controller	1 Gb
Optical drive (IDE)	(10)
Diskette drive	USB option
Power supply	430 W
Number standard	2
Hot-swap	Yes
Redundant power	Yes
Auto restart	Yes

(8) Capacities are based on installation of 500 GB SATA HDDs. For the most up-to-date information on supported HDD options, visit

<http://www-03.ibm.com/servers/eserver/serverproven/compat/us/>

(9) This bay does not support HDD options. It can be used for removable media devices such as tape backup.

(10) 4362 = CD-ROM; 4363 = Combination drive

SATA (160 GB¹¹) HDD characteristics

- Formatted capacity: 160,064 million bytes
- Average read seek time: <8.9 ms
- Burst transfer rate (maximum): 3.0 Gbps
- Average latency: 4.2 ms
- Drive rotation speed (rpm): 7200 rpm
- Sustained data transfer rate: 29.6 to 61.1 MB/s
- PFA/S.M.A.R.T enabled: Yes
- Interface: Serial-ATA

¹¹ GB equals 1,000,000,000 bytes when referring to HDD capacity. Actual user-accessible capacity may vary based on operating environments.

48x-20x CD-ROM drive characteristics

- Formatted capacity: 650 MB
- Average access time including latency: Less than 85 ms
- Sustained data transfer rate: 3000 to 7200 KB/s
- Burst data transfer rate
 - ATA PIO Mode 4: 16.6 MB/sec
 - ATA Multi-Word DMA Mode 2: 16.6 MB/sec
- Technology: Full constant angular velocity (CAV)

48x-32x-48x-16x Max CD-RW/DVD-ROM combination drive specifications

- Write speed:
 - CD-R media 48X max; 3.0 to 7.2 MB/s CAV
 - CD-RW media
 - Multispeed 4X; 0.6 MB/s CLV
 - High-speed 10X; 1.5 MB/s CLV
 - Ultraspeed 24X max; 2.4 to 3.6 MB/s CAV
 - Ultraspeed Plus 32X max; 3.0 to 4.8 MB/s PCAV

Read speed:

- Sustained data transfer rates:
 - DVD-ROM (6.5x-16x CAV, 4.7 GB DVD-ROM read): 8.7 to 22.1 MB/

- DVD-ROM (3.3x-8x CAV, 8.5 GB Dual-layer read): 4.4 to 11.0 MB/s
- DVD-R (2.5x-6x CAV, 4.7 GB DVD-R read): 3.3 to 8.1 MB/s
- DVD+R (2.5x-6x CAV, 4.7 GB DVD+R read): 3.3 to 8.1 MB/s
- DVD-R (2.5x-5x CAV, 3.95 GB DVD-R read): 3.3 to 6.7 MB/s
- DVD-RAM (2x CLV, 4.7 GB DVD-RAM read): 2.7 MB/s
- DVD-RW (2.5x-6x CAV, 4.7 GB DVD-RW read): 3.3 to 8.1 MB/s
- DVD+RW (2.5x-6x CAV, 4.7 GB DVD+RW read): 3.3 to 8.1 MB/s
- CD-ROM (20x-48x CAV, CD-ROM read): 3.0 to 7.2 MB/s
- CD-R (18x-40x CAV, CD-R read): 2.7 to 6.0 MB/s
- CD-RW (16x-32x CAV, CD-RW read): 2.4 to 4.8 MB/s
- Max burst data transfer rate: Ultra DMA Mode 2: 33 MB/s
- Average access times:
 - DVD-ROM including latency, single layer: 120 ms
 - CD-ROM including latency: 110 ms
 - CD-RW including latency: 110 ms
 - 2 MB data buffer

Note: Variable read rate. Actual playback speed will vary and is often less than the maximum possible.

Video subsystem

- ATI RN50 Graphics Controller chip
- Integrated on planar and connected to the PCI bus
- Support for DDR1 SDRAM external memory
- 128-bit graphics engine with 8, 16, and 24 bpp mode acceleration
- 32 bpp (4G colors/True Color) support
- Integrated 350 MHz RAMDAC
- DDC2B monitor communications support

Supported video mode capabilities for the SVGA PCI controller with a 200 MHz memory clock:

Microsoft™ Windows™ 2000/2003 (32- and 64-bit) and Linux™ (all distributions)

Resolution	Colors	Refresh Rate (Hz)
640 x 480 x 8	256	60, 72, 75, 85, 90, 100, 120, 160, 200
640 x 480 x 16	64K	60, 72, 75, 85, 90, 100, 120, 160, 200
640 x 480 x 32	16M	60, 72, 75, 85, 90, 100, 120, 160, 200
800 x 600 x 8	256	60, 70, 72, 75, 85, 90, 100, 120, 160, 200
800 x 600 x 16	64K	60, 70, 72, 75, 85, 90, 100, 120, 160, 200
800 x 600 x 32	16M	60, 70, 72, 75, 85, 90, 100, 120, 160, 200
1024 x 768 x 8	256	60, 70, 72, 75, 85, 90, 100, 120, 140, 150, 160, 200
1024 x 768 x 16	64K	60, 70, 72, 75, 85, 90, 100, 120, 140, 150, 160, 200
1024 x 768 x 32	16M	60, 70, 72, 75, 85, 90, 100

Dimensions

- Width: 215.9 mm (8.5 inch)

- Depth: 539.75 (21.25 inch)
- Height: 438.15 mm (17.25 inch)
- Weight:
 - Minimum ship configuration: 16.3 kg (36.0 lb)
 - Maximum ship configuration: 25.2 kg (56.0 lb)

Minimum clearance for cooling

- 100 mm (4 inch) at the back
- 50 mm (2 inch) on each side

Electrical

- 100 to 127 (nominal) V ac; 50 to 60 Hz; 8.0 A (maximum)
- 200 to 240 (nominal) V ac; 50 to 60 Hz; 4.0 A (maximum)
- Input kilovolt-amperes (kVA) (approximately):
 - Minimum configuration: 0.20 kVA
 - Maximum configuration: 0.55 kVA
- Btu output:
 - Ship configuration — 630 Btu/hr (185 watts)
 - Full configuration — 1794 Btu/hr (523 watts)
- Acoustical noise emission level: Sound power levels
 - 4.5 bels (idling — non-redundant power system)
 - 5.0 bels (idling — redundant power system)
 - 5.3 bels (operating)

Note: The noise emission level stated is the declared (upper limit) sound power level, in bels, for a random sample of machines, typically configured, and operating in idle mode; for example, powered on, but no disk drive read/write or other I/O activity. All measurements are made in accordance with ANSI S12.10 and ISO 7779, and reported in accordance with ISO 9296.

The System x3200 is shipped as a floor-standing server. An optional 5U Tower-to-Rack Kit allows rack mounting. This server is supported in a horizontal orientation only with this conversion kit.

Standards: These systems support or comply with the following standards:

- Peripheral Component Interconnect (PCI) specification 2.2.
- This model is ISO 9241 capable. A supplier's declaration is available.

Equipment approvals and safety

- FCC — Verified to comply with Part 15 of the FCC Rules, Class A
- Canada ICES-003, issue 4, Class A
- UL/IEC 60950-1¹²
- CAN C22.2 No. 60950-1-03
- NOM-019¹²

¹² This System x server is certified by the respective UL and NOM agencies. NOM certification will be available on November 15, 2006.

Operating environment

- Air temperature:
 - Server on: 10.0 ° to 35.0°C (50° to 95°F)
 - Altitude: 0 to 914 m (2998.0 ft)
 - Server off: 0.0° to 60.0°C (-32° to 140°F)
 - Altitude: 0 to 2133 m (7000.0 ft)

- Relative humidity: 8% to 80%

Hardware requirements: For attended installation of an operating system, this server requires a compatible:

- Keyboard
- Mouse
- HDD
- Display

Unattended or remote installation may be performed without requiring some or all of these components. Review your unattended software installation program information for specific hardware configuration requirements.

For service, the server requires a compatible:

- Keyboard
- Mouse
- HDD
- Display

When having the unit serviced, plan to have these components attached to your server either directly or indirectly via a console switch.

Software requirements: The following network operating systems are supported in the System x3200 server:

- Microsoft:
 - Windows Server 2003/2003 R2, Enterprise Edition
 - Windows Server 2003/2003 R2, Enterprise x64 Edition
 - Windows Server 2003/2003 R2, Standard Edition
 - Windows Server 2003/2003 R2, Standard x64 Edition
 - Windows Server 2003, Web Edition
 - Windows Small Business Server 2003/2003 R2 Premium Edition
 - Windows Small Business Server 2003/2003 R2 Standard Edition
- Linux:
 - Red Hat Enterprise Linux 4 AS for x86
 - Red Hat Enterprise Linux 4 AS for AMD64/EM64T
 - Red Hat Enterprise Linux 4 ES for x86
 - Red Hat Enterprise Linux 4 ES for AMD64/EM64T
 - Red Hat Enterprise Linux 4 WS for x86
 - Red Hat Enterprise Linux 4 WS for AMD64/EM64T
- IBM: 4690 Operating System

The following network operating systems are supported as preloads in the System x3200 server:

Microsoft:

- Windows Server 2003 R2 Standard Edition
- Windows Server 2003 R2 32-bit Enterprise Edition
- Windows Server 2003 R2 Standard x64 Edition
- Windows Small Business Server 2003 R2 Standard Edition
- Windows Small Business Server 2003 R2 Premium Edition

Linux:

- Red Hat Enterprise Linux AS 4
- Red Hat Enterprise Linux ES 4
- Red Hat Enterprise Linux WS 4
- SUSE Linux Enterprise Server 9 for AMD64/EM64T

Note: For additional support, certification, and version information on network operating systems, visit

<http://www-03.ibm.com/servers/eserver/serverproven/compat/us/>

Compatibility: The System x3200 systems contain licensed system programs that include set configuration, set features, and test programs. System BIOS (flash BIOS modified to IBM specifications) is loaded from a “flash” EEPROM into system memory. This BIOS provides instructions and interfaces designed to support the standard features of the server and to maintain compatibility with many current software programs.

To view detailed information about IBM and non-IBM devices, adapters, software, and network operating systems supported with xSeries® servers, visit

<http://www-03.ibm.com/servers/eserver/serverproven/compat/us/>

Contact your IBM representative, IBM Business Partner, or refer to the *IBM Sales Manual* for information on the compatibility of hardware and software for xSeries servers. The *Sales Manual* is updated periodically as new features and options are announced that support these servers.

Limitations

- SATA and SAS drives cannot be intermixed on the same system.
- Wake on LAN® is not supported if systems are improperly shut down.
- The open 5.25-inch bay supports removable media devices, such as tape backup devices. It does not support HDD options.
- Use the version of ServerGuide that is shipped with the system, or a later version, to load software and drivers. Earlier versions of ServerGuide may not be compatible with the server.
- If using a fixed power supply and a hot-swap SAS/SATA HDD than 400W Interposer Cable is required.

Refer to the **Software requirements** section for operating system limitations.

Planning information

Customer responsibilities

Customer setup: The System x3200 server is designated as customer setup. Customer setup instructions are shipped with systems.

Standard IDE configurations

The System x3200 server uses the IDE interface for the optical drive.

Standard SATA configurations

Two single-drop SATA cables are used to attach up to two SATA HDDs.

Standard SAS configurations

System x3200 models use a paddle board with Adaptec 9405E controller.

Supported memory options: The following memory options are supported:

- 512 (1X512MB) PC2-5300 CL5 ECC DDR2 SDRAM DIMM (41Y2726)
- 2 GB (2X1GB) PC2-5300) CL5 ECC DDR2 SDRAM DIMM Kit (41Y2729)
- 4 GB (2X2GB) PC2-5300) CL5 ECC DDR2 SDRAM DIMM Kit (41Y2732)

Rack installations: The System x3200 server can be converted to a rack-mounted unit by installing a 5U x 20-inch Tower-to-Rack Kit. The 5U System x3200 server can be installed in a 19-inch industry-standard rack such as:

- IBM 25U Standard Rack
- IBM 42U Standard Rack Extension
- IBM 42U Standard Rack

If using a non-IBM rack, the cabinet must meet the EIA-310-D standards with a depth of at least 71 cm (28 inches). Also, adequate space (approximately 2.5 cm (2 inches) for the front bezel and one inch for air flow) must be maintained from the slide assembly to the front door of the rack cabinet to allow sufficient space for the door to close and provide adequate air flow.

Cable orders: The gigabit full duplex, Ethernet controller, standard with the server, is connected directly to a RJ-45 connector. The RJ-45 connector provides a 10/100/1000Base-T interface for connecting twisted-pair cable to the Ethernet network. Cabling is not included with the server. To connect the Ethernet controller to a repeater or switch, use a UTP cable with RJ-45 connectors at both ends. For 100/1000 Mbps operation, Category 5 or better, cabling must be used.

There are no additional cabling requirements, other than for system power, keyboard, mouse, and monitor connections.

Installability: The System x3200 system requires about 30 minutes for installation. Installation includes unpacking, setting up, and powering on the system. Additional time is required to install an operating system, additional adapters, or features.

Packaging: One box

- System unit carton: system unit
- Country kit tray:
 - Keyboard with attached cable (if ordered)
 - Two-button mouse with attached cable (if ordered)
 - System unit power cord
 - Publications/CD bag:
 - System x3200 Installation Guide
 - Documentation CD
 - Diagnostics CD
 - Safety pointer publication
 - Contents information flyer
 - ServerGuide and IBM Director CDs

The System x3200 system is shipped as a single package. The country kit tray is contained inside the top portion of the system unit carton.

Supplies: None

Security, auditability, and control

Security and auditability features include:

- Power-on password (secured boot).

- A mechanical lock allows the user to lock the system cover to prevent unauthorized personnel access to internal components of the server.
- Selectable boot sequence prevents unauthorized installation of software or removal of data from the diskette drive.
- Tie-down capability is available by using a common U bolt attached to the back frame.
- Operation without a keyboard and display are supported after the server is configured with the appropriate network operating system. This reduces the risk of unauthorized people tampering with the system software and configuration.

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

IBM Global Financing: Yes

To obtain copies of the IBM Statement of Limited Warranty, contact your reseller or IBM.

In the United States, call 800-IBM-SERV (426-7378), or write to

Warranty Information
P.O. Box 12195
Research Triangle Park, NC 27709
Attn: Dept JDJA/B203

Warranty period

- System hardware (4362) — One year
- System hardware (4363) — Three years
- Optional features — One year

Optional IBM features initially installed in an IBM system carry the same warranty period as the system. If installed after the initial system installation, they carry the balance of the system warranty or the optional feature warranty, whichever is greater.

Warranty service: If required, IBM provides repair or exchange service depending on the type of warranty service specified below for the machine. IBM will attempt to resolve your problem over the telephone or electronically by access to an IBM Web site. You must follow the problem determination and resolution procedures that IBM specifies. Scheduling of service will depend upon the time of your call and is subject to parts availability. Service levels are response time objectives and are not guaranteed. The specified level of warranty service may not be available in all worldwide locations, additional charges may apply outside IBM's normal service area, contact your local IBM representative or your reseller for country and location specific information.

Customer Replaceable Unit (CRU) (keyboard, mouse, speaker, memory, HDD), and on-site service for other selected parts.

CRU service: IBM provides replacement CRUs to you for you to install. CRU information and replacement instructions are shipped with your machine and are available from IBM at any time on your request. CRUs are designated as being either a Tier 1 or a Tier 2 CRU. Installation of Tier 1 CRUs is your responsibility. If IBM installs a Tier 1 CRU, at your request, you will be charged for the installation. You may install a Tier 2 CRU yourself

or request IBM to install it, at no additional charge, under the type of warranty service specified below, on-site service.

Based upon availability, CRUs will be shipped for next business day (NBD) delivery. IBM specifies in the materials shipped with a replacement CRU whether a defective CRU must be returned to IBM. When return is required, return instructions and a container are shipped with the replacement CRU, and you may be charged for the replacement CRU if IBM does not receive the defective CRU within 30 days of your receipt of the replacement.

The following parts have been designated as Tier 1 CRUs:

- Battery
- CD-ROM drive
- DVD-ROM drive
- Lift handle kit
- Memory DIMM
- Memory expansion card
- PCI adapters
- PCI divider
- Power cord
- Service label
- System labels
- Top cover
- Voltage regulator module

On-site service: IBM On-site repair (IOR), 9 hours per day, Monday through Friday excluding holidays, NBD response. IBM will repair the failing machine at your location and verify its operation. You must provide suitable working area to allow disassembly and reassembly of the IBM machine. The area must be clean, well lit, and suitable for the purpose. On-site service is not available in all countries, and some countries have kilometer or mileage limitations from an IBM service center. In those locations where on-site service is not available, the normal in-country service delivery is used.

Call IBM at 800-IBM-SERV (426-7378), to assist with problem isolation for hardware to determine if warranty service is required. Telephone support may be subject to additional charges, even during the limited warranty period.

International Warranty Service (IWS): IWS is available during the warranty period to customers who travel or relocate to countries where their computer is sold and serviced by IBM or IBM resellers authorized to perform warranty service. Eligible IBM computers are identified by their four-digit machine type.

You can obtain IWS through the method of service, such as CRU, depot, carry-in or on-site, provided in the servicing country. Service methods and procedures vary by country, and some service or parts may not be available in all countries. Service centers in certain countries may not be able to service all models of a particular machine type. In addition, some countries may have fees and restrictions that apply at the time of service.

To determine the eligibility of your computer and to view a list of countries where service is available, visit

<http://www.ibm.com/pc/support/site.wss/warranty/warranty.vm>

For more information on IWS, refer to Services Announcement 601-034, dated September 25, 2001.

Note: Due to the earth's magnetic field, cathode ray tube (CRT) monitors are manufactured to work in northern,

southern and equatorial regions of the earth and may not produce a satisfactory image when moved between them. Any required adjustment (if possible) is not covered under IWS and may be subject to a chargeable action. The magnetic field does not affect flat panel LCD monitors.

Licensing: Programs included with this product are licensed under the terms and conditions of the License Agreements that are shipped with the system.

Maintenance services

ServiceElect and ServiceSuite™: ServiceElect and ServiceSuite provide hardware warranty service upgrades, maintenance, and selected support services in one agreement.

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

IBM will attempt to resolve your problem over the telephone or electronically by access to an IBM Web site. You must follow the problem determination and resolution procedures that IBM specifies. Scheduling of service will depend upon the time of your call and is subject to parts availability.

CRUs will be provided as part of the machine's standard warranty CRU service except that you may install a Tier 1 CRU yourself or request IBM installation, at no additional charge, under one of the on-site service levels specified below.

IBM will repair the failing machine at your location and verify its operation. You must provide suitable working area to allow disassembly and reassembly of the IBM machine. The area must be clean, well lit and suitable for the purpose.

The following warranty service upgrade options are available:

- On-site service — IOR, 9 hours per day, Monday through Friday excluding holidays, 4-hour average response.
- On-site service — IOR, 24 hours per day, 7 days a week, 4-hour average response.

Maintenance service: If required, IBM provides repair or exchange service depending on the type of maintenance service specified below for the machine. An IBM technician will attempt to resolve your problem over the telephone, you must follow IBM's problem determination and resolution procedures. Scheduling of service will depend upon the time of your call and is subject to parts availability. Service levels are response time objectives and are not guaranteed.

CRU service: If your problem can be resolved with a CRU (keyboard, mouse, speaker, memory, HDD), IBM will ship the CRU to you for you to install. CRU information and replacement instructions are shipped with your machine and are available from IBM at any time on your request.

IBM specifies in the materials shipped with a replacement CRU whether a defective CRU must be returned to IBM. When return is required, return instructions and a

container are shipped with the replacement CRU, and you may be charged for the replacement CRU if IBM does not receive the defective CRU within 30 days of your receipt of the replacement.

On-site service: IOR; IBM will repair the failing machine at your location and verify its operation. You must provide suitable working area to allow disassembly and reassembly of the IBM machine. The area must be clean, well lit, and suitable for the purpose.

The following on-site service options are available:

- On-site service — IOR, 9 hours per day, Monday through Friday excluding holidays, NBD response.
- On-site service — IOR, 9 hours per day, Monday through Friday excluding holidays, 4-hour average response.
- On-site service — IOR, 24 hours per day, 7 days a week, 4-hour average response.

Maintenance service (ICA)

Maintenance services are available for ICA legacy contracts. The preferred go-to-market offerings are ServiceElect. However, ICA legacy contracts will still be available for current customers until they are withdrawn.

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

IBM will attempt to resolve your problem over the telephone or electronically by access to an IBM Web site. You must follow the problem determination and resolution procedures that IBM specifies. Scheduling of service will depend upon the time of your call and is subject to parts availability.

CRUs will be provided as part of the machine's standard warranty CRU service except that you may install a Tier 1 CRU yourself or request IBM to install it, at no additional charge under the type of warranty service specified below, on-site service.

IBM will repair the failing machine at your location and verify its operation. You must provide suitable working area to allow disassembly and reassembly of the IBM machine. The area must be clean, well lit, and suitable for the purpose.

The following warranty service upgrade option is available.

- On-site service — IOR, 24 hours per day, 7 days a week, 4-hour average response.

Maintenance service: If required, IBM provides repair or exchange service depending on the type of maintenance service specified below for the machine. An IBM technician will attempt to resolve your problem over the telephone, you must follow IBM's problem determination and resolution procedures. Scheduling of service will depend upon the time of your call and is subject to parts availability. Service levels are response time objectives and are not guaranteed.

CRU service: If your problem can be resolved with a CRU (keyboard, mouse, speaker, memory, HDD, IBM will ship the CRU to you for you to install. CRU information and replacement instructions are shipped with your machine and are available from IBM at any time on your request.

IBM specifies in the materials shipped with a replacement CRU whether a defective CRU must be returned to IBM. When return is required, return instructions and a container are shipped with the replacement CRU, and you may be charged for the replacement CRU if IBM does not receive the defective CRU within 30 days of your receipt of the replacement.

On-site service: IOR; IBM will repair the failing machine at your location and verify its operation. You must provide suitable working area to allow disassembly and reassembly of the IBM machine. The area must be clean, well lit and suitable for the purpose.

The following on-site service options are available:

- On-site service — IOR, 9 hours per day, Monday through Friday excluding holidays, NBD.
- On-site service — IOR, 24 hours per day, 7 days a week, same-day response.

Non-IBM parts support

Warranty service: IBM is now shipping machines with selected non-IBM parts that contain an IBM field replaceable unit (FRU) part number label. These parts are to be serviced during the IBM machine warranty period. IBM is covering the service on these selected non-IBM parts as an accommodation to their customers, and normal warranty service procedures for the IBM machine apply.

Warranty service upgrades and maintenance services: Under certain conditions, IBM Integrated Technology Services repairs selected non-IBM parts at no additional charge for machines that are covered under warranty service upgrades or maintenance services.

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

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

IBM hourly service rate classification: One

ServicePac® offerings

Warranty and maintenance options: The announced products may be eligible for ServicePacs for warranty and maintenance options, convenient prepackaged offerings for warranty service upgrades and maintenance services.

Installation services: The announced products may be eligible for ServicePacs for installation services, convenient prepackaged offerings for installation

services. Refer to the **Prices** section for information on the availability of ServicePac offerings.

For additional ServicePac information, visit

http://www-1.ibm.com/services/au/index.wss/offering_related/itsm/a1007682?desc=yes

Field-installable features: Yes

Model conversions: No

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

Graduated program license charges apply: No. This product does not contain Licensed Internal Code or Licensed Machine Code.

Educational allowance available: None

Prices

Product charges: The following are newly announced features on the specified models of the IBM System x 4362 machine type:

Description	Model number	Feature number	Purchase price	Initial/MES/Both/Support
IBM System x3200 (CSU)	AC1		\$ 0	
IBM System x3200 (CSU)	MC1		0	
24+ SATA Cable	AC1	0870	NC	Initial
5.25 to 3.5 Conversion Kit, no Bezel	MC1			Initial
	AC1	0895	NC	Initial
Bezel Kit	MC1			Initial
	AC1	0900	NC	Initial
Universal Adapter Bracket 3.5+ to 5.25+ — Black	AC1	0918	NC	Initial
Planar	MC1			Initial
	AC1	1131	NC	Initial
Dual-Core Intel Xeon 3040 (1.87GHz/1066MHz FSB, 2MB L2)	AC1	1288	369	Initial
Dual-Core Intel Xeon 3050 (2.13GHz/1066MHz FSB, 2MB L2)	MC1			Initial
	AC1	1289	445	Initial
Dual-Core Intel Xeon 3060 (2.4GHz/1066MHz FSB, 4MB L2)	MC1			Initial
	AC1	1290	649	Initial
Dual core Intel Pentium D 945 (3.4GHz, 2x2MB L2)	AC1	1338	319	Initial
NetXtreme 1000 T + Ethernet Adapter	MC1			Initial
	AC1	1478	139	Initial
NetXtreme 1000 Express G Ethernet Adapter	MC1			Initial
	AC1	1486	169	Initial
PRO/1000 GT Server Adapter by Intel	MC1			Initial
	AC1	1488	139	Initial
NetXtreme 1000 T + Dual Port Ethernet Adapter	MC1			Initial
	AC1	1489	249	Initial
Remote Supervisor Adapter II Slimline Refresh 1	MC1			Initial
	AC1	1605	385	Initial
IBM Ultra320 SCSI Controller 2	MC1			Initial
	AC1	1680	219	Initial
IBM SAS HBA Controller	MC1			Initial
	AC1	1681	329	Initial

Capacity Scheduling Service	MC1			Initial
	AC1	1772	NC	Initial
Custom SLA Scheduling Service	MC1			Initial
	AC1	1796	NC	Initial
512MB DDR2 667 SDRAM DIMM Memory	MC1			Initial
	AC1	1902	99	Initial
1GB DDR2 667 SDRAM DIMM Memory	MC1			Initial
	AC1	1903	279	Initial
2GB DDR2 667 SDRAM DIMM Memory	MC1			Initial
	AC1	1904	1,599	Initial
Custom Asset Tagging — Standard	MC1			Initial
	AC1	2200	10	Initial
Custom Asset Tagging — Standard	MC1			Initial
	AC1	2201	20	Initial
Server Custom Image	MC1			Initial
	AC1	2204	35	Initial
Custom Software/Firmware Setting — Standard	MC1			Initial
	AC1	2208	10	Initial
Custom Software/Firmware Setting — Enhanced	MC1			Initial
	AC1	2209	20	Initial
Custom RAID Configuration	MC1			Initial
	AC1	2212	250	Initial
Custom Labeling	MC1			Initial
	AC1	2220	5	Initial
Custom Palletization	MC1			Initial
	AC1	2221	5	Initial
Request for a new Vendor Logo Hardware	MC1			Initial
	AC1	2247	NC	Initial
Request for an existing IBM Feature	MC1			Initial
	AC1	2248	NC	Initial
Request for an existing Public RPQ	MC1			Initial
	AC1	2249	NC	Initial
Base Hardware w/o Bezel	MC1			Initial
	AC1	2281	235	Initial
RAID Configuration	MC1			Initial
	AC1	2302	150	Initial
Department of Defense UID Label	MC1			Initial
	AC1	2320	NC	Initial
System Packaging - US	MC1			Initial
	AC1	2554	NC	Initial
Dual core Intel Pentium D 915 (2.8GHz, 2x2MB L2)	MC1			Initial
	AC1	2852	229	Initial
Install in Rack 01	MC1			Initial
	AC1	3101	NC	Initial
Install in Rack 02	MC1			Initial
	AC1	3102	NC	Initial
Install in Rack 03	MC1			Initial
	AC1	3103	NC	Initial
Install in Rack 04	MC1			Initial
	AC1	3104	NC	Initial
Install in Rack 05	MC1			Initial
	AC1	3105	NC	Initial
Install in Rack 06	MC1			Initial
	AC1	3106	NC	Initial
Install in Rack 07	MC1			Initial
	AC1	3107	NC	Initial
Install in Rack 08	MC1			Initial
	AC1	3108	NC	Initial
Install in Rack 09	MC1			Initial
	AC1	3109	NC	Initial
Install in Rack 10	MC1			Initial

	AC1 MC1	3110	NC	Initial Initial	Install in Rack 41	MC1			Initial
Install in Rack 11	AC1 MC1	3111	NC	Initial Initial	Install in Rack 42	AC1 MC1	3141	NC	Initial Initial
Install in Rack 12	AC1 MC1	3112	NC	Initial Initial	Install in Rack 43	AC1 MC1	3142	NC	Initial Initial
Install in Rack 13	AC1 MC1	3113	NC	Initial Initial	Install in Rack 44	AC1 MC1	3143	NC	Initial Initial
Install in Rack 14	AC1 MC1	3114	NC	Initial Initial	Install in Rack 45	AC1 MC1	3144	NC	Initial Initial
Install in Rack 15	AC1 MC1	3115	NC	Initial Initial	Install in Rack 46	AC1 MC1	3145	NC	Initial Initial
Install in Rack 16	AC1 MC1	3116	NC	Initial Initial	Install in Rack 47	AC1 MC1	3146	NC	Initial Initial
Install in Rack 17	AC1 MC1	3117	NC	Initial Initial	Install in Rack 48	AC1 MC1	3147	NC	Initial Initial
Install in Rack 18	AC1 MC1	3118	NC	Initial Initial	Install in Rack 49	AC1 MC1	3148	NC	Initial Initial
Install in Rack 19	AC1 MC1	3119	NC	Initial Initial	Install in Rack 50	AC1 MC1	3149	NC	Initial Initial
Install in Rack 20	AC1 MC1	3120	NC	Initial Initial	Install in Rack 51	AC1 MC1	3150	NC	Initial Initial
Install in Rack 21	AC1 MC1	3121	NC	Initial Initial	Install in Rack 52	AC1 MC1	3151	NC	Initial Initial
Install in Rack 22	AC1 MC1	3122	NC	Initial Initial	Install in Rack 53	AC1 MC1	3152	NC	Initial Initial
Install in Rack 23	AC1 MC1	3123	NC	Initial Initial	Install in Rack 54	AC1 MC1	3153	NC	Initial Initial
Install in Rack 24	AC1 MC1	3124	NC	Initial Initial	Install in Rack 55	AC1 MC1	3154	NC	Initial Initial
Install in Rack 25	AC1 MC1	3125	NC	Initial Initial	Install in Rack 56	AC1 MC1	3155	NC	Initial Initial
Install in Rack 26	AC1 MC1	3126	NC	Initial Initial	Install in Rack 57	AC1 MC1	3156	NC	Initial Initial
Install in Rack 27	AC1 MC1	3127	NC	Initial Initial	Install in Rack 58	AC1 MC1	3157	NC	Initial Initial
Install in Rack 28	AC1 MC1	3128	NC	Initial Initial	Install in Rack 59	AC1 MC1	3158	NC	Initial Initial
Install in Rack 29	AC1 MC1	3129	NC	Initial Initial	Install in Rack 60	AC1 MC1	3159	NC	Initial Initial
Install in Rack 30	AC1 MC1	3130	NC	Initial Initial	Install in Rack 61	AC1 MC1	3160	NC	Initial Initial
Install in Rack 31	AC1 MC1	3131	NC	Initial Initial	Install in Rack 62	AC1 MC1	3161	NC	Initial Initial
Install in Rack 32	AC1 MC1	3132	NC	Initial Initial	Install in Rack 63	AC1 MC1	3162	NC	Initial Initial
Install in Rack 33	AC1 MC1	3133	NC	Initial Initial	Install in Rack 64	AC1 MC1	3163	NC	Initial Initial
Install in Rack 34	AC1 MC1	3134	NC	Initial Initial	Rack location U01	AC1 MC1	3164	NC	Initial Initial
Install in Rack 35	AC1 MC1	3135	NC	Initial Initial	Rack location U02	AC1 MC1	3201	NC	Initial Initial
Install in Rack 36	AC1 MC1	3136	NC	Initial Initial	Rack location U03	AC1 MC1	3202	NC	Initial Initial
Install in Rack 37	AC1 MC1	3137	NC	Initial Initial	Rack location U04	AC1 MC1	3203	NC	Initial Initial
Install in Rack 38	AC1 MC1	3138	NC	Initial Initial	Rack location U05	AC1 MC1	3204	NC	Initial Initial
Install in Rack 39	AC1 MC1	3139	NC	Initial Initial	Rack location U06	AC1 MC1	3205	NC	Initial Initial
Install in Rack 40	AC1	3140	NC	Initial		AC1	3206	NC	Initial

Rack location U07	MC1			Initial	Rack location U37	MC1			Initial
	AC1	3207	NC	Initial		AC1	3237	NC	Initial
Rack location U08	MC1			Initial	Rack location U38	MC1			Initial
	AC1	3208	NC	Initial		AC1	3238	NC	Initial
Rack location U09	MC1			Initial	Rack location U39	MC1			Initial
	AC1	3209	NC	Initial		AC1	3239	NC	Initial
Rack location U10	MC1			Initial	Rack location U40	MC1			Initial
	AC1	3210	NC	Initial		AC1	3240	NC	Initial
Rack location U11	MC1			Initial	Rack location U41	MC1			Initial
	AC1	3211	NC	Initial		AC1	3241	NC	Initial
Rack location U12	MC1			Initial	Rack location U42	MC1			Initial
	AC1	3212	NC	Initial		AC1	3242	NC	Initial
Rack location U13	MC1			Initial	DS4000 FC 4Gb PCI-X Single Port HBA	AC1	3550	1,225	Initial
	AC1	3213	NC	Initial		MC1			Initial
Rack location U14	MC1			Initial	DS4000 FC 4Gb PCI-X Dual Port HBA	AC1	3551	1,899	Initial
	AC1	3214	NC	Initial		MC1			Initial
Rack location U15	MC1			Initial	IDE/SATA Interposer Card	AC1	3556	24	Initial
	AC1	3215	NC	Initial		MC1			Initial
Rack location U16	MC1			Initial	1.5m KVM Conversion Option	AC1	3755	589	Initial
	AC1	3216	NC	Initial		MC1			Initial
Rack location U17	MC1			Initial	250mm KVM Conversion Option	AC1	3772	559	Initial
	AC1	3217	NC	Initial		MC1			Initial
Rack location U18	MC1			Initial	IBM 48X-20X CD-ROM Black Internal IDE Drive	AC1	4137	29	Initial
	AC1	3218	NC	Initial		MC1			Initial
Rack location U19	MC1			Initial	IBM 48X/32X/48X/16X Max CD-RW/DVD-ROM Combination Drive	AC1	4139	99	Initial
	AC1	3219	NC	Initial		MC1			Initial
Rack location U20	MC1			Initial	IBM DVD Multi-Burner Plus Drive	AC1	4140	169	Initial
	AC1	3220	NC	Initial		MC1			Initial
Rack location U21	MC1			Initial	IBM 16X RAM-Read DVD-ROM IDE Drive	AC1	4149	69	Initial
	AC1	3221	NC	Initial		MC1			Initial
Rack location U22	MC1			Initial	Ultra160 LVD SCSI 1-drop Cable	AC1	4204	30	Initial
	AC1	3222	NC	Initial		MC1			Initial
Rack location U23	MC1			Initial	Simple-Swap SATA Kit	AC1	4210	19	Initial
	AC1	3223	NC	Initial		MC1			Initial
Rack location U24	MC1			Initial	Key Lock ASM	AC1	4214	10	Initial
	AC1	3224	NC	Initial		MC1			Initial
Rack location U25	MC1			Initial	3.5t HDD Rotating Cage	AC1	4354	29	Initial
	AC1	3225	NC	Initial		MC1			Initial
Rack location U26	MC1			Initial	2.5t HDD Rotating Cage	AC1	4355	29	Initial
	AC1	3226	NC	Initial		MC1			Initial
Rack location U27	MC1			Initial	Front Bezel (IBM)	AC1	4356	15	Initial
	AC1	3227	NC	Initial		MC1			Initial
Rack location U28	MC1			Initial	Front Bezel (OEM)	AC1	4357	15	Initial
	AC1	3228	NC	Initial		MC1			Initial
Rack location U29	MC1			Initial	400W Fixed PWS	AC1	4358	79	Initial
	AC1	3229	NC	Initial		MC1			Initial
Rack location U30	MC1			Initial	430W Redundant PWS	AC1	4359	359	Initial
	AC1	3230	NC	Initial		MC1			Initial
Rack location U31	MC1			Initial	Simple-Swap SATA Kit w/ RAID — HW only	AC1	4387	149	Initial
	AC1	3231	NC	Initial		MC1			Initial
Rack location U32	MC1			Initial	Hot-Swap SAS/SATA Kit	AC1	4388	229	Initial
	AC1	3232	NC	Initial		MC1			Initial
Rack location U33	MC1			Initial	160GB 7200 rpm Hot-Swap SATA HDD	AC1	5150	149	Initial
	AC1	3233	NC	Initial		MC1			Initial
Rack location U34	MC1			Initial	250GB 7200 rpm Hot-Swap SATA HDD	AC1	5151	239	Initial
	AC1	3234	NC	Initial		MC1			Initial
Rack location U35	MC1			Initial	300GB 10K 3.5t Hot-Swap SAS HDD	AC1	5156	649	Initial
	AC1	3235	NC	Initial		MC1			Initial
Rack location U36	MC1			Initial	36GB 10K 2.5t Hot-Swap SAS HDD	AC1	5158	279	Initial
	AC1	3236	NC	Initial		MC1			Initial

73GB 10K 2.5t Hot-Swap SAS HDD	MC1			Initial	Performance Package	MC1			Initial
	AC1	5159	349	Initial		AC1	6783	235	Initial
36GB 15K 3.5t Hot-Swap SAS HDD	MC1			Initial	No HDD Selected	MC1			Initial
	AC1	5160	249	Initial		AC1	8026	NC	Initial
73GB 15K 3.5t Hot-Swap SAS HDD	MC1			Initial	Consolidate Shipment	MC1			Initial
	AC1	5161	379	Initial		AC1	8031	NC	Initial
146GB 15K 3.5t Hot-Swap SAS HDD	MC1			Initial	e1350 Solution Component	MC1			Initial
	AC1	5162	599	Initial		AC1	8034	NC	Initial
73GB 10K 3.5t Hot-Swap SAS HDD	MC1			Initial	Compute Node	MC1			Initial
	AC1	5163	299	Initial		AC1	8036	NC	Initial
146GB 10K 3.5t Hot-Swap SAS HDD	MC1			Initial	Management Node	MC1			Initial
	AC1	5164	369	Initial		AC1	8037	NC	Initial
500GB 7200 rpm 3.5t Hot-Swap SATA HDD	MC1			Initial	Storage Node	MC1			Initial
	AC1	5196	699	Initial		AC1	8038	NC	Initial
500GB 7200 rpm 3.5t Simple-Swap SATA HDD	MC1			Initial	TAA Compliant Order	MC1			Initial
	AC1	5288	699	Initial		AC1	8067	NC	Initial
80GB 7200 rpm 3.5t Simple-Swap SATA HDD	MC1			Initial	General Racking Solution	MC1			Initial
	AC1	5290	99	Initial		AC1	8072	NC	Initial
160GB 7200 rpm 3.5t Simple-Swap SATA HDD	MC1			Initial	No SATA HDD Selected	MC1			Initial
	AC1	5291	149	Initial		AC1	8080	NC	Initial
250GB 7200 rpm 3.5t Simple-Swap SATA HDD	MC1			Initial	No 2.5t SAS HDD Selected	MC1			Initial
	AC1	5292	259	Initial		AC1	8081	NC	Initial
80GB 7200 rpm Hot-Swap SATA HDD	MC1			Initial	No 3.5t SAS HDD Selected	MC1			Initial
	AC1	5299	99	Initial		AC1	8082	NC	Initial
FDD Kit	MC1			Initial	No Pointing Device Selected	MC1			Initial
	AC1	5305	15	Initial		AC1	8084	NC	Initial
36/72GB DDS Generation 5 Tape Drive	MC1			Initial	No Keyboard Selected	MC1			Initial
	AC1	5355	659	Initial		AC1	8085	NC	Initial
VXA 3 Half High Internal Backup	MC1			Initial	No Publications Selected	MC1			Initial
	AC1	5362	1,049	Initial		AC1	8086	NC	Initial
1.5m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable	MC1			Initial	RAID 0 — Primary Array (SATA) — minimum of 2 HDDs required	MC1			Initial
	AC1	6201	0	Initial		AC1	8135	0	Initial
Rack power cable — 2.8m, 10A/100-250V, C13 to IEC 320-C20 (WW)	MC1			Initial	RAID 1 — Primary Array (SATA) — 2 HDDs required	MC1			Initial
	AC1	6204	0	Initial		AC1	8136	0	Initial
Line cord — 4.3M, 10A/125V, C13 to NEMA 5-15P (US)	MC1			Initial	RAID 1E — Primary Array (SATA) — minimum of 3 HDDs required	MC1			Initial
	AC1	6207	15	Initial		AC1	8137	NC	Initial
Rack power cable — 2.8m, 100-240V, C13 to IEC 320-C14 (WW)	MC1			Initial	RAID 0 — Secondary Array (SATA) — minimum of 2 HDDs required	MC1			Initial
	AC1	6311	0	Initial		AC1	8138	0	Initial
Line cord — 1.8M, 10A/125V, C13 to NEMA 5-15P (US)	MC1			Initial	RAID 1 — Secondary Array (SATA) — 2 HDDs required	MC1			Initial
	AC1	6312	0	Initial		AC1	8139	0	Initial
2.8m, 10A/120V, C13 to NEMA 5-15P (US) Line Cord	MC1			Initial	RAID 0 — Primary Array (SAS) — minimum of 2 HDDs required	MC1			Initial
	AC1	6313	0	Initial		AC1	8141	0	Initial
Rack power cable — 2.0m, 125-250V, C13 to IEC 320-C14 (WW)	MC1			Initial	RAID 1 — Primary Array (SAS) — 2 HDDs required	MC1			Initial
	AC1	6316	0	Initial		AC1	8142	0	Initial
Line cord — 1.8m, 10A/250V, C13 to NEMA 6-15P (US)	MC1			Initial	RAID 1E — Primary Array (SAS) — minimum of 3 HDDs required	MC1			Initial
	AC1	6351	0	Initial		AC1	8143	NC	Initial
Line cord — 2.8m, 100-120V, C13 to NEMA 5-15P (US)	MC1			Initial	RAID 0 — Secondary Array (SAS) — minimum of 2 HDDs required	MC1			Initial
	AC1	6366	0	Initial		AC1	8144	0	Initial
1.8m, 10A/120V, C13 to NEMA 5-15P (US) Line Cord	MC1			Initial	RAID 1 — Secondary Array (SAS) — 2 HDDs required	MC1			Initial
	AC1	6369	0	Initial		AC1	8145	0	Initial
Line cord — 2.8m, 10A/250V, C13 to NEMA 6-15P (US)	MC1			Initial	System Documentation and Software — US English	MC1			Initial
	AC1	6372	0	Initial		AC1	8465	NC	Initial
Line cord — 4.3m, 10A/250V, C13 to NEMA 6-15P (US)	MC1			Initial	IBM Preferred Pro Keyboard — USB — French Canadian	MC1			Initial
	AC1	6373	0	Initial		AC1	8723	29	Initial
Economy Package	MC1			Initial	IBM Preferred Pro Keyboard — USB — US English	MC1			Initial
	AC1	6781	235	Initial		AC1	8750	29	Initial
Value Package	MC1			Initial	IBM Preferred Pro Keyboard — USB — French Canadian	MC1			Initial
	AC1	6782	235	Initial		MC1			Initial

IBM 2 Button Optical Wheel Mouse	AC1 MC1	8758	29	Initial
IBM 3 Button Optical Mouse	AC1 MC1	8912	19	Initial
Integrate in manufacturing	AC1 MC1	8913	19	Initial
Ship Uninstalled (Safety)	AC1 MC1	8971	NC	Initial
Internal RAID — Cabled and Setup	AC1 MC1	8972	NC	Initial
Internal RAID — Cabled only, Setup by Customer	AC1 MC1	9010	NC	Initial
No Internal RAID	AC1 MC1	9011	NC	Initial
Hot Spare	AC1 MC1	9012	NC	Initial
Internal RAID — Setup	AC1 MC1	9013	NC	Initial
Internal RAID — Setup by Customer	AC1 MC1	9066	NC	Initial
Storage Subsystem ID 01	AC1 MC1	9067	NC	Initial
Storage Subsystem ID 02	AC1 MC1	9170	NC	Initial
Storage Subsystem ID 03	AC1 MC1	9171	NC	Initial
Storage Subsystem ID 04	AC1 MC1	9172	NC	Initial
Storage Subsystem ID 05	AC1 MC1	9173	NC	Initial
Storage Subsystem ID 06	AC1 MC1	9174	NC	Initial
Storage Subsystem ID 07	AC1 MC1	9175	NC	Initial
Storage Subsystem ID 08	AC1 MC1	9176	NC	Initial
Storage Subsystem ID 09	AC1 MC1	9177	NC	Initial
Storage Subsystem ID 10	AC1 MC1	9178	NC	Initial
Storage Subsystem ID 11	AC1 MC1	9179	NC	Initial
Storage Subsystem ID 12	AC1 MC1	9180	NC	Initial
Storage Subsystem ID 13	AC1 MC1	9181	NC	Initial
Storage Subsystem ID 14	AC1 MC1	9182	NC	Initial
Storage Subsystem ID 15	AC1 MC1	9183	NC	Initial
Storage Subsystem ID 16	AC1 MC1	9184	NC	Initial
Storage Subsystem ID 17	AC1 MC1	9185	NC	Initial
Storage Subsystem ID 18	AC1 MC1	9186	NC	Initial
Storage Subsystem ID 19	AC1 MC1	9187	NC	Initial
Storage Subsystem ID 20	AC1 MC1	9188	NC	Initial
Preload Specify	AC1 MC1	9189	NC	Initial
Windows Specify	AC1 MC1	9200	NC	Initial
Red Hat Specify	AC1 MC1	9201	NC	Initial
SUSE Specify	AC1 MC1	9202	NC	Initial
Drop-in-the-Box Specify	AC1 MC1	9203	NC	Initial
No Preload Specify	AC1 MC1	9205	NC	Initial
400W Interposer Cable	AC1 MC1	9206	NC	Initial
	AC1 MC1	9261	NC	Initial

The following are newly announced features on the specified models of the IBM System x 4363 machine type:

Description	Model number	Feature number	Purchase price	Initial/MES/Both/Support
IBM System x3200 (CSU)	AC1		\$ 0	
IBM System x3200 (CSU)	MC1		0	
24+ SATA Cable	AC1 MC1	0870	NC	Initial
5.25 to 3.5 Conversion Kit, no Bezel	AC1 MC1	0895	NC	Initial
Bezel Kit	AC1 MC1	0900	NC	Initial
Universal Adapter Bracket 3.5+ to 5.25+ — Black	AC1 MC1	0918	NC	Initial
Planar	AC1 MC1	1131	NC	Initial
Dual-Core Intel Xeon 3040 (1.87GHz/1066MHz FSB, 2MB L2)	AC1 MC1	1288	369	Initial
Dual-Core Intel Xeon 3050 (2.13GHz/1066MHz FSB, 2MB L2)	AC1 MC1	1289	445	Initial
Dual-Core Intel Xeon 3060 (2.4GHz/1066MHz FSB, 4MB L2)	AC1 MC1	1290	649	Initial
Dual core Intel Pentium D 945 (3.4GHz, 2x2MB L2)	AC1 MC1	1338	319	Initial
NetXtreme 1000 T + Ethernet Adapter	AC1 MC1	1478	139	Initial
NetXtreme 1000 Express G Ethernet Adapter	AC1 MC1	1486	169	Initial
PRO/1000 GT Server Adapter by Intel	AC1 MC1	1488	139	Initial
NetXtreme 1000 T + Dual Port Ethernet Adapter	AC1 MC1	1489	249	Initial
Remote Supervisor Adapter II Slimline Refresh 1	AC1 MC1	1605	385	Initial
IBM Ultra320 SCSI Controller 2	AC1 MC1	1680	219	Initial
IBM SAS HBA Controller	AC1 MC1	1681	329	Initial
Capacity Scheduling Service	AC1 MC1	1772	NC	Initial
Custom SLA Scheduling Service	AC1 MC1	1796	NC	Initial
512MB DDR2 667 SDRAM DIMM Memory	AC1 MC1	1902	99	Initial
1GB DDR2 667 SDRAM DIMM Memory	AC1 MC1	1903	279	Initial
2GB DDR2 667 SDRAM DIMM Memory	AC1 MC1	1904	1,599	Initial
Custom Asset Tagging — Standard	AC1 MC1	2200	10	Initial
Custom Asset Tagging — Standard	AC1 MC1	2201	20	Initial
Server Custom Image	AC1 MC1	2204	35	Initial
Custom Software/Firmware Setting — Standard	AC1	2208	10	Initial

CSU = Customer setup

Custom Software/Firmware Setting — Enhanced	MC1 AC1 MC1	2209	20	Initial Initial Initial	Install in Rack 19	MC1 AC1 MC1	3119	NC	Initial Initial Initial
Custom RAID Configuration	AC1 MC1	2212	250	Initial Initial	Install in Rack 20	AC1 MC1	3120	NC	Initial Initial
Custom Labeling	AC1 MC1	2220	5	Initial Initial	Install in Rack 21	AC1 MC1	3121	NC	Initial Initial
Custom Palletization	AC1 MC1	2221	5	Initial Initial	Install in Rack 22	AC1 MC1	3122	NC	Initial Initial
Request for a new Vendor Logo Hardware	AC1 MC1	2247	NC	Initial Initial	Install in Rack 23	AC1 MC1	3123	NC	Initial Initial
Request for an existing IBM Feature	AC1 MC1	2248	NC	Initial Initial	Install in Rack 24	AC1 MC1	3124	NC	Initial Initial
Request for an existing Public RPQ	AC1 MC1	2249	NC	Initial Initial	Install in Rack 25	AC1 MC1	3125	NC	Initial Initial
Base Hardware w/o Bezel	AC1 MC1	2281	385	Initial Initial	Install in Rack 26	AC1 MC1	3126	NC	Initial Initial
RAID Configuration	AC1 MC1	2302	150	Initial Initial	Install in Rack 27	AC1 MC1	3127	NC	Initial Initial
Department of Defense UID Label	AC1 MC1	2320	NC	Initial Initial	Install in Rack 28	AC1 MC1	3128	NC	Initial Initial
System Packaging — US	AC1 MC1	2554	NC	Initial Initial	Install in Rack 29	AC1 MC1	3129	NC	Initial Initial
Dual core Intel Pentium D 915 (2.8GHz, 2x2MB L2)	AC1 MC1	2852	229	Initial Initial	Install in Rack 30	AC1 MC1	3130	NC	Initial Initial
Install in Rack 01	AC1 MC1	3101	NC	Initial Initial	Install in Rack 31	AC1 MC1	3131	NC	Initial Initial
Install in Rack 02	AC1 MC1	3102	NC	Initial Initial	Install in Rack 32	AC1 MC1	3132	NC	Initial Initial
Install in Rack 03	AC1 MC1	3103	NC	Initial Initial	Install in Rack 33	AC1 MC1	3133	NC	Initial Initial
Install in Rack 04	AC1 MC1	3104	NC	Initial Initial	Install in Rack 34	AC1 MC1	3134	NC	Initial Initial
Install in Rack 05	AC1 MC1	3105	NC	Initial Initial	Install in Rack 35	AC1 MC1	3135	NC	Initial Initial
Install in Rack 06	AC1 MC1	3106	NC	Initial Initial	Install in Rack 36	AC1 MC1	3136	NC	Initial Initial
Install in Rack 07	AC1 MC1	3107	NC	Initial Initial	Install in Rack 37	AC1 MC1	3137	NC	Initial Initial
Install in Rack 08	AC1 MC1	3108	NC	Initial Initial	Install in Rack 38	AC1 MC1	3138	NC	Initial Initial
Install in Rack 09	AC1 MC1	3109	NC	Initial Initial	Install in Rack 39	AC1 MC1	3139	NC	Initial Initial
Install in Rack 10	AC1 MC1	3110	NC	Initial Initial	Install in Rack 40	AC1 MC1	3140	NC	Initial Initial
Install in Rack 11	AC1 MC1	3111	NC	Initial Initial	Install in Rack 41	AC1 MC1	3141	NC	Initial Initial
Install in Rack 12	AC1 MC1	3112	NC	Initial Initial	Install in Rack 42	AC1 MC1	3142	NC	Initial Initial
Install in Rack 13	AC1 MC1	3113	NC	Initial Initial	Install in Rack 43	AC1 MC1	3143	NC	Initial Initial
Install in Rack 14	AC1 MC1	3114	NC	Initial Initial	Install in Rack 44	AC1 MC1	3144	NC	Initial Initial
Install in Rack 15	AC1 MC1	3115	NC	Initial Initial	Install in Rack 45	AC1 MC1	3145	NC	Initial Initial
Install in Rack 16	AC1 MC1	3116	NC	Initial Initial	Install in Rack 46	AC1 MC1	3146	NC	Initial Initial
Install in Rack 17	AC1 MC1	3117	NC	Initial Initial	Install in Rack 47	AC1 MC1	3147	NC	Initial Initial
Install in Rack 18	AC1	3118	NC	Initial	Install in Rack 48	AC1	3148	NC	Initial

Install in Rack 49	MC1			Initial	Rack location U15	MC1			Initial
	AC1	3149	NC	Initial		AC1	3215	NC	Initial
Install in Rack 50	MC1			Initial	Rack location U16	MC1			Initial
	AC1	3150	NC	Initial		AC1	3216	NC	Initial
Install in Rack 51	MC1			Initial	Rack location U17	MC1			Initial
	AC1	3151	NC	Initial		AC1	3217	NC	Initial
Install in Rack 52	MC1			Initial	Rack location U18	MC1			Initial
	AC1	3152	NC	Initial		AC1	3218	NC	Initial
Install in Rack 53	MC1			Initial	Rack location U19	MC1			Initial
	AC1	3153	NC	Initial		AC1	3219	NC	Initial
Install in Rack 54	MC1			Initial	Rack location U20	MC1			Initial
	AC1	3154	NC	Initial		AC1	3220	NC	Initial
Install in Rack 55	MC1			Initial	Rack location U21	MC1			Initial
	AC1	3155	NC	Initial		AC1	3221	NC	Initial
Install in Rack 56	MC1			Initial	Rack location U22	MC1			Initial
	AC1	3156	NC	Initial		AC1	3222	NC	Initial
Install in Rack 57	MC1			Initial	Rack location U23	MC1			Initial
	AC1	3157	NC	Initial		AC1	3223	NC	Initial
Install in Rack 58	MC1			Initial	Rack location U24	MC1			Initial
	AC1	3158	NC	Initial		AC1	3224	NC	Initial
Install in Rack 59	MC1			Initial	Rack location U25	MC1			Initial
	AC1	3159	NC	Initial		AC1	3225	NC	Initial
Install in Rack 60	MC1			Initial	Rack location U26	MC1			Initial
	AC1	3160	NC	Initial		AC1	3226	NC	Initial
Install in Rack 61	MC1			Initial	Rack location U27	MC1			Initial
	AC1	3161	NC	Initial		AC1	3227	NC	Initial
Install in Rack 62	MC1			Initial	Rack location U28	MC1			Initial
	AC1	3162	NC	Initial		AC1	3228	NC	Initial
Install in Rack 63	MC1			Initial	Rack location U29	MC1			Initial
	AC1	3163	NC	Initial		AC1	3229	NC	Initial
Install in Rack 64	MC1			Initial	Rack location U30	MC1			Initial
	AC1	3164	NC	Initial		AC1	3230	NC	Initial
Rack location U01	MC1			Initial	Rack location U31	MC1			Initial
	AC1	3201	NC	Initial		AC1	3231	NC	Initial
Rack location U02	MC1			Initial	Rack location U32	MC1			Initial
	AC1	3202	NC	Initial		AC1	3232	NC	Initial
Rack location U03	MC1			Initial	Rack location U33	MC1			Initial
	AC1	3203	NC	Initial		AC1	3233	NC	Initial
Rack location U04	MC1			Initial	Rack location U34	MC1			Initial
	AC1	3204	NC	Initial		AC1	3234	NC	Initial
Rack location U05	MC1			Initial	Rack location U35	MC1			Initial
	AC1	3205	NC	Initial		AC1	3235	NC	Initial
Rack location U06	MC1			Initial	Rack location U36	MC1			Initial
	AC1	3206	NC	Initial		AC1	3236	NC	Initial
Rack location U07	MC1			Initial	Rack location U37	MC1			Initial
	AC1	3207	NC	Initial		AC1	3237	NC	Initial
Rack location U08	MC1			Initial	Rack location U38	MC1			Initial
	AC1	3208	NC	Initial		AC1	3238	NC	Initial
Rack location U09	MC1			Initial	Rack location U39	MC1			Initial
	AC1	3209	NC	Initial		AC1	3239	NC	Initial
Rack location U10	MC1			Initial	Rack location U40	MC1			Initial
	AC1	3210	NC	Initial		AC1	3240	NC	Initial
Rack location U11	MC1			Initial	Rack location U41	MC1			Initial
	AC1	3211	NC	Initial		AC1	3241	NC	Initial
Rack location U12	MC1			Initial	Rack location U42	MC1			Initial
	AC1	3212	NC	Initial		AC1	3242	NC	Initial
Rack location U13	MC1			Initial	DS4000 FC 4Gb PCI-X Single Port HBA	AC1	3550	1,225	Initial
	AC1	3213	NC	Initial		MC1			Initial
Rack location U14	MC1			Initial	DS4000 FC 4Gb PCI-X Dual Port HBA	AC1	3551	1,899	Initial
	AC1	3214	NC	Initial		AC1			Initial

IDE/SATA Interposer Card	MC1			Initial	80GB 7200 rpm 3.5t Simple-Swap SATA HDD	MC1			Initial
	AC1	3556	24	Initial		AC1	5290	99	Initial
1.5m KVM Conversion Option	MC1			Initial	160GB 7200 rpm 3.5t Simple-Swap SATA HDD	MC1			Initial
	AC1	3755	589	Initial		AC1	5291	149	Initial
250mm KVM Conversion Option	MC1			Initial	250GB 7200 rpm 3.5t Simple-Swap SATA HDD	MC1			Initial
	AC1	3772	559	Initial		AC1	5292	259	Initial
IBM 48X-20X CD-ROM Black Internal IDE Drive	MC1			Initial	80GB 7200 rpm Hot-Swap SATA HDD	MC1			Initial
	AC1	4137	29	Initial		AC1	5299	99	Initial
IBM 48X/32X/48X/16X Max CD-RW/DVD-ROM Combination Drive	MC1			Initial	FDD Kit	MC1			Initial
	AC1	4139	99	Initial		AC1	5305	15	Initial
IBM DVD Multi-Burner Plus Drive	MC1			Initial	36/72GB DDS Generation 5 Tape Drive	MC1			Initial
	AC1	4140	169	Initial		AC1	5355	659	Initial
IBM 16X RAM-Read DVD-ROM IDE Drive	MC1			Initial	VXA 3 Half High Internal Backup	MC1			Initial
	AC1	4149	69	Initial		AC1	5362	1,049	Initial
Ultra160 LVD SCSI 1-drop Cable	MC1			Initial	1.5m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable	MC1			Initial
	AC1	4204	30	Initial		AC1	6201	0	Initial
Simple-Swap SATA Kit	MC1			Initial	Rack power cable — 2.8m, 10A/100-250V, C13 to IEC 320-C20 (WW)	MC1			Initial
	AC1	4210	19	Initial		AC1	6204	0	Initial
Key Lock ASM	MC1			Initial	Line cord — 4.3M, 10A/125V, C13 to NEMA 5-15P (US)	MC1			Initial
	AC1	4214	10	Initial		AC1	6207	15	Initial
3.5t HDD Rotating Cage	MC1			Initial	Rack power cable — 2.8m, 100-240V, C13 to IEC 320-C14 (WW)	MC1			Initial
	AC1	4354	29	Initial		AC1	6311	0	Initial
2.5t HDD Rotating Cage	MC1			Initial	Line cord — 1.8M, 10A/125V, C13 to NEMA 5-15P (US)	MC1			Initial
	AC1	4355	29	Initial		AC1	6312	0	Initial
Front Bezel (IBM)	MC1			Initial	2.8m, 10A/120V, C13 to NEMA 5-15P (US) Line Cord	MC1			Initial
	AC1	4356	15	Initial		AC1	6313	0	Initial
Front Bezel (OEM)	MC1			Initial	Rack power cable — 2.0m, 125-250V, C13 to IEC 320-C14 (WW)	MC1			Initial
	AC1	4357	15	Initial		AC1	6316	0	Initial
400W Fixed PWS	MC1			Initial	Line cord — 1.8m, 10A/250V, C13 to NEMA 6-15P (US)	MC1			Initial
	AC1	4358	79	Initial		AC1	6351	0	Initial
430W Redundant PWS	MC1			Initial	Line cord — 2.8m, 100-120V, C13 to NEMA 5-15P (US)	MC1			Initial
	AC1	4359	359	Initial		AC1	6366	0	Initial
Simple-Swap SATA Kit w/ RAID — HW only	MC1			Initial	1.8m, 10A/120V, C13 to NEMA 5-15P (US) Line Cord	MC1			Initial
	AC1	4387	149	Initial		AC1	6369	0	Initial
Hot-Swap SAS/SATA Kit	MC1			Initial	Line cord — 2.8m, 10A/250V, C13 to NEMA 6-15P (US)	MC1			Initial
	AC1	4388	229	Initial		AC1	6372	0	Initial
160GB 7200 rpm Hot-Swap SATA HDD	MC1			Initial	Line cord — 4.3m, 10A/250V, C13 to NEMA 6-15P (US)	MC1			Initial
	AC1	5150	149	Initial		AC1	6373	0	Initial
250GB 7200 rpm Hot-Swap SATA HDD	MC1			Initial	Economy Package	MC1			Initial
	AC1	5151	239	Initial		AC1	6784	385	Initial
300GB 10K 3.5t Hot-Swap SAS HDD	MC1			Initial	Value Package	MC1			Initial
	AC1	5156	649	Initial		AC1	6785	385	Initial
36GB 10K 2.5t Hot-Swap SAS HDD	MC1			Initial	Performance Package	MC1			Initial
	AC1	5158	279	Initial		AC1	6786	385	Initial
73GB 10K 2.5t Hot-Swap SAS HDD	MC1			Initial	No HDD Selected	MC1			Initial
	AC1	5159	349	Initial		AC1	8026	NC	Initial
36GB 15K 3.5t Hot-Swap SAS HDD	MC1			Initial	Consolidate Shipment	MC1			Initial
	AC1	5160	249	Initial		AC1	8031	NC	Initial
73GB 15K 3.5t Hot-Swap SAS HDD	MC1			Initial	e1350 Solution Component	MC1			Initial
	AC1	5161	379	Initial		AC1	8034	NC	Initial
146GB 15K 3.5t Hot-Swap SAS HDD	MC1			Initial	Compute Node	MC1			Initial
	AC1	5162	599	Initial		AC1	8036	NC	Initial
73GB 10K 3.5t Hot-Swap SAS HDD	MC1			Initial	Management Node	MC1			Initial
	AC1	5163	299	Initial		AC1	8037	NC	Initial
146GB 10K 3.5t Hot-Swap SAS HDD	MC1			Initial	Storage Node	MC1			Initial
	AC1	5164	369	Initial		AC1	8038	NC	Initial
500GB 7200 rpm 3.5t Hot-Swap SATA HDD	MC1			Initial	TAA Compliant Order	MC1			Initial
	AC1	5196	699	Initial		AC1	8067	NC	Initial
500GB 7200 rpm 3.5t Simple-Swap SATA HDD	MC1			Initial					
	AC1	5288	699	Initial					

General Racking Solution	MC1			Initial	Hot Spare	MC1			Initial
	AC1	8072	NC	Initial		AC1	9013	NC	Initial
No SATA HDD Selected	MC1			Initial	Internal RAID — Setup	MC1			Initial
	AC1	8080	NC	Initial		AC1	9066	NC	Initial
No 2.5t SAS HDD Selected	MC1			Initial	Internal RAID — Setup by Customer	MC1			Initial
	AC1	8081	NC	Initial		AC1	9067	NC	Initial
No 3.5t SAS HDD Selected	MC1			Initial	Storage Subsystem ID 01	MC1			Initial
	AC1	8082	NC	Initial		AC1	9170	NC	Initial
No Pointing Device Selected	MC1			Initial	Storage Subsystem ID 02	MC1			Initial
	AC1	8084	NC	Initial		AC1	9171	NC	Initial
No Keyboard Selected	MC1			Initial	Storage Subsystem ID 03	MC1			Initial
	AC1	8085	NC	Initial		AC1	9172	NC	Initial
No Publications Selected	MC1			Initial	Storage Subsystem ID 04	MC1			Initial
	AC1	8086	NC	Initial		AC1	9173	NC	Initial
RAID 0 — Primary Array (SATA) — minimum of 2 HDDs required	MC1			Initial	Storage Subsystem ID 05	MC1			Initial
	AC1	8135	0	Initial		AC1	9174	NC	Initial
RAID 1 — Primary Array (SATA) — 2 HDDs required	MC1			Initial	Storage Subsystem ID 06	MC1			Initial
	AC1	8136	0	Initial		AC1	9175	NC	Initial
RAID 1E — Primary Array (SATA) — minimum of 3 HDDs required	MC1			Initial	Storage Subsystem ID 07	MC1			Initial
	AC1	8137	NC	Initial		AC1	9176	NC	Initial
RAID 0 — Secondary Array (SATA) — minimum of 2 HDDs required	MC1			Initial	Storage Subsystem ID 08	MC1			Initial
	AC1	8138	0	Initial		AC1	9177	NC	Initial
RAID 1 — Secondary Array (SATA) — 2 HDDs required	MC1			Initial	Storage Subsystem ID 09	MC1			Initial
	AC1	8139	0	Initial		AC1	9178	NC	Initial
RAID 0 — Primary Array (SAS) — minimum of 2 HDDs required	MC1			Initial	Storage Subsystem ID 10	MC1			Initial
	AC1	8141	0	Initial		AC1	9179	NC	Initial
RAID 1 — Primary Array (SAS) — 2 HDDs required	MC1			Initial	Storage Subsystem ID 11	MC1			Initial
	AC1	8142	0	Initial		AC1	9180	NC	Initial
RAID 1E — Primary Array (SAS) — minimum of 3 HDDs required	MC1			Initial	Storage Subsystem ID 12	MC1			Initial
	AC1	8143	NC	Initial		AC1	9181	NC	Initial
RAID 0 — Secondary Array (SAS) — minimum of 2 HDDs required	MC1			Initial	Storage Subsystem ID 13	MC1			Initial
	AC1	8144	0	Initial		AC1	9182	NC	Initial
RAID 1 — Secondary Array (SAS) — 2 HDDs required	MC1			Initial	Storage Subsystem ID 14	MC1			Initial
	AC1	8145	0	Initial		AC1	9183	NC	Initial
System Documentation and Software — US English	MC1			Initial	Storage Subsystem ID 15	MC1			Initial
	AC1	8465	NC	Initial		AC1	9184	NC	Initial
IBM Preferred Pro Keyboard — USB — French Canadian	MC1			Initial	Storage Subsystem ID 16	MC1			Initial
	AC1	8723	29	Initial		AC1	9185	NC	Initial
IBM Preferred Pro Keyboard — USB — US English	MC1			Initial	Storage Subsystem ID 17	MC1			Initial
	AC1	8750	29	Initial		AC1	9186	NC	Initial
IBM Preferred Pro Keyboard — USB — French Canadian	MC1			Initial	Storage Subsystem ID 18	MC1			Initial
	AC1	8758	29	Initial		AC1	9187	NC	Initial
IBM 2 Button Optical Wheel Mouse — Black — USB	MC1			Initial	Storage Subsystem ID 19	MC1			Initial
	AC1	8912	19	Initial		AC1	9188	NC	Initial
IBM 3 Button Optical Mouse — Black — USB	MC1			Initial	Storage Subsystem ID 20	MC1			Initial
	AC1	8913	19	Initial		AC1	9189	NC	Initial
Integrate in manufacturing	MC1			Initial	Preload Specify	MC1	9200	NC	Initial
	AC1	8971	NC	Initial	Windows Specify	MC1	9201	NC	Initial
Ship Uninstalled (Safety)	MC1			Initial	Red Hat Specify	AC1	9202	NC	Initial
	AC1	8972	NC	Initial	SUSE Specify	AC1	9203	NC	Initial
Internal RAID — Cabled and Setup	MC1			Initial	Drop-in-the-Box Specify	AC1	9205	NC	Initial
	AC1	9010	NC	Initial	No Preload Specify	AC1	9206	NC	Initial
Internal RAID — Cabled only, Setup by Customer	MC1			Initial	400W Interposer Cable	AC1	9261	NC	Initial
	AC1	9011	NC	Initial		MC1			Initial
No Internal RAID	AC1	9012	NC	Initial	CSU = Customer setup				

Maintenance service charges (legacy)(IOR)

Description	SEO numbers	Purchase price	Initial/MES/Both/Support	CSU		
Express models						
2.8 GHz 915	512 MB	S/S SATA	436222U	\$ 699	Both	Yes
2.8 GHz 915	1024 MB	SATA/SAS HS	436224U	1,059	Both	Yes
3.4 GHz 945	512 MB	S/S SATA	436232U	809	Both	Yes
1.87 GHz 3040	512 MB	S/S SATA	436242U	859	Both	Yes
1.87 GHz 3040	1024 MB	S/S SATA	436243U	1,569	Both	Yes
		160 GB SBSSE				
1.87 GHz 3040	1024 MB	SATA/SAS HS	436244U	1,209	Both	Yes
2.13 GHz 3050	1024 MB	S/S SATA	436252U	1,009	Both	Yes
2.13 GHz 3050	1024 MB	SATA/SAS HS*	436256U	1,559	Both	Yes
2.13 GHz 3050	1024 MB	SATA HS*	436257U	2,169	Both	Yes
		160 GB SBSSE				
2.4 GHz 3060	1024 MB	SATA/SAS HS	436262U	1,459	Both	Yes
2.4 GHz 3060	1024 MB	SATA/SAS HS*	436264U	1,759	Both	Yes
2.8 GHz 915	512 MB	S/S SATA	43632BU	909	Both	Yes
2.8 GHz 915	1024 MB	SATA/SAS HS	43632DU	1,269	Both	Yes
3.4 GHz 945	512 MB	S/S SATA	43633BU	1,019	Both	Yes
1.87 GHz 3040	512 MB	S/S SATA	43634BU	1,069	Both	Yes
1.87 GHz 3040	1024 MB	S/S SATA	43634CU	1,779	Both	Yes
		160 GB SBSSE				
1.87 GHz 3040	1024 MB	SATA/SAS HS	43634DU	1,419	Both	Yes
2.13 GHz 3050	1024 MB	S/S SATA	43635BU	1,219	Both	Yes
2.13 GHz 3050	1024 MB	SATA/SAS HS*	43635FU	1,769	Both	Yes
2.13 GHz 3050	1024 MB	SATA HS*	43635GU	2,379	Both	Yes
		160 GB SBSSE				
2.4 GHz 3060	1024 MB	SATA/SAS HS	43636BU	1,669	Both	Yes
2.4 GHz 3060	1024 MB	SATA/SAS HS*	43636DU	1,969	Both	Yes

Alternative service (warranty service upgrades)

Machine type/model	IWR	IOR
	24 x 7	24 x 7
	4-hour	4-hour
4362-XxX	\$140	
		9 x 5
4362-XxX	\$380	\$570

Maintenance service

System x3200 4363

ServicePac for warranty and maintenance charges

Option SEOs

Simple-swap RAID Kit for System x3200	42C1312	149	Both	Yes
5U Tower-to-Rack Kit	42C8923	0	Both	Yes

Machine type/model	Description	SEO ServicePac part number
4363-XXX	1-year MA IOR 24 x 7 2-hour average response	69P9385
4363-XXX	1-year MA IOR 24 X 7 4-hour average response	69P9384
4363-XXX	1-year MA IOR 9 x 5 4-hour average response	69P9383
4363-XXX	1-year MA IOR 9 x 5 NBD response	69P9382
4363-XXX	2-year MA IOR 24 x 7 2-hour average response	96P2104
4363-XXX	2-year MA IOR 24 X 7 4-hour average response	96P2103
4363-XXX	2-year MA IOR 9 x 5 4-hour average response	96P2102
4363-XXX	2-year MA IOR 9 X 7 4-hour average response	96P2101
4363-XXX	3-year IOR 9 x 5 4-hour average response	40M7057
4363-XXX	3-year IOR 24 X 7 4-hour average response	40M7058
4363-XXX	3-year IOR 24 x 7 2-hour average response	40M7059
4363-XXX	4-year IOR 9 x 5 NBD response	40M7060
4363-XXX	4-year IOR 9 x 5 4-hour average response	40M7061
4363-XXX	4-year IOR 24 X 7 4-hour average response	40M7062
4363-XXX	4-year IOR 24 x 7 2-hour average response	40M7063
4363-XXX	5-year IOR 9 x 5 NBD response	40M7064
4363-XXX	5-year IOR 9 x 5 4-hour average response	40M7065
4363-XXX	5-year IOR 24 X 7 4-hour average response	40M7066
4363-XXX	5-year IOR 24 x 7 2-hour average response	40M7067

* Redundant power

Maintenance service charges

ServicePac for warranty and maintenance charges

Machine type/model	Description	SEO ServicePac part number
4362-XXX	1-year MA IOR 24 x 7 2-hour average response	69P9385
4362-XXX	1-year MA IOR 24 X 7 4-hour average response	69P9384
4362-XXX	1-year MA IOR 9 x 5 4-hour average response	69P9383
4362-XXX	1-year MA IOR 9 x 5 NBD response	69P9382
4362-XXX	2-year MA IOR 24 x 7 2-hour average response	96P2104
4362-XXX	2-year MA IOR 24 X 7 4-hour average response	96P2103
4362-XXX	2-year MA IOR 9 x 5 4-hour average response	96P2102
4362-XXX	2-year MA IOR 9 x 5 NBD response	96P2101
4362-XXX	3-year IOR 24 x 7 2-hour average response	69P9512
4362-XXX	3-year IOR 24 x 7 4-hour average response	69P9511
4362-XXX	3-year IOR 9 x 5 4-hour response	69P9510
4362-XXX	3-year IOR 9 x 5 NBD response	69P9509

Maintenance service charges (legacy)(IOR)

Alternative service (warranty service upgrades)

	IWR	
Machine	24 x 7	
type/model	4-hour	
4363-XxX	\$229	

Maintenance service

	I08	I0R
Machine	24 x 7	24 x 7
type/model	9 x 5	4-hour
4363-XxX	\$380	\$570

For ServiceElect (ESA) maintenance service charges, contact IBM Global Services at 888-IBM-4343 (426-4343).

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