



IBM System x3250 server – Affordable, easy-to-use server for Web and network infrastructure

Overview

Perfect for space-constrained environments, the System x3250 server combines resilience and performance in a package that is easy to deploy, manage, and service.

Value and performance

- Choice of Intel® Celeron®, Pentium®, and Xeon processors
 - Celeron 341
 - Pentium D 945
 - Xeon 3040, 3050, and 3060 processors
- Standard 512 MB or 1 GB of PC2-5300 CL5 ECC DDR2 SDRAM DIMM memory (8 GB maximum)
- Two PCI-Express x8 slots:
 - Full-height, three-quarter-length adapter
 - Low-profile, half-length adapter
- Integrated, dual Gigabit Ethernet controller
- Hardware RAID 0, 1 support on 3.5-inch hot-swap SAS and SATA models, RAID 1E support on 2.5-inch hot-swap SAS models
- Integrated SATA and SAS controllers
- Two 3.5-inch or four 2.5-inch slim-high, standard HDD bays that support next-generation, hot-swap internal high-speed disk storage up to 600 GB SAS or 1 TB SATA:
 - Open bay models
 - SAS models supporting high-speed 36, 73, or 146 GB SAS HDDs at 15,000 rpm or 73, 146, or 300 GB SAS HDDs at 10,000 rpm
 - SATA models supporting 80, 160, 250, or 500 GB SATA HDDs at 7200 rpm

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 can help diagnose problems quickly.

- Base Systems Management with IPMI 1.5 compliance
- Text console redirect over LAN for monitoring vital functions
- Automatic server restart to help get the server back online quickly
- Alert and monitoring capability for memory, thermal, or voltage faults
- Preboot eXecution Environment and Wake on LAN® for monitoring key components

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 x3250 servers and other LAN assets
- ServerGuide⁴ utilities to assist loading of many popular network operating systems
- Support for optional Remote Supervisor Adapter II card for greater manageability
- Warranty: One- or three-year parts, customer replaceable unit (CRU) or on-site labor⁵, limited warranty⁶; optional warranty service upgrades

Key prerequisites

- Monitor
- Keyboard
- Mouse
- Rack

At a glance

The System x3250 server delivers the performance, scalability, control, and serviceability you need to manage Web applications:

- Ultrathin, rack-optimized, 1U high with 351-watt power supply
- Choice of Intel processors
 - Xeon processors with 1066 MHz front-side bus (FSB) and 2 and 4 MB L2 cache
 - Pentium D 3.4 GHz¹ dual-core processor with 800 MHz FSB and Intel Extended Memory 64 Technology (EM64T) with 2 x 2 MB L2 cache
 - Celeron D 2.93 GHz processor with 533 MHz and 256 KB L2 cache
- Standard 512 MB or 1 GB of 667 MHz PC2-5300 CL5 ECC DDR2 SDRAM DIMM system memory; 8 GB² maximum
- Serial Attached SCSI (SAS) that supports high-speed, internal disk storage solutions; or Serial-ATA (SATA) controllers
- Two PCI-Express x8 slots
- Three or five drive bays: One 24x-10x³ slim CD-ROM, two 3.5-inch HDDs or four 2.5-inch (model dependent)
- 351-watt, voltage-sensing power supply
- Integrated, dual Gigabit Ethernet controllers; dual-channel SATA
- Four USB, two Ethernet, one serial, mouse, keyboard, and video ports

For ordering, contact:

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

800-IBM-CALL

Reference: SE001

Planned availability date

November 20, 2006

This announcement is provided for your information only. For additional information, contact your IBM representative, call 800-IBM-4YOU, or visit the IBM home page at: <http://www.ibm.com>.

Description

Solid-performing server subsystems

This uniprocessor, entry rack server delivers a solid range of performance by combining Intel, Celeron, Pentium D, and Xeon dual-core processors with high-speed ECC memory and EM64T.

The System x3250 server uses the Intel chipset to optimize throughput from processors to memory and to the PCI-E bus.

Standard System x3250 configurations

Model	Processor	Cache	Memory	Interface	HDD
4364-12x	2.93 GHz	341	256 KB	512 MB SATA Simple-swap	Open bay
4364-22x	3.40 GHz	945	4 MB	512 MB SATA Simple-swap	Open bay
4364-42x	1.87 GHz	3040	2 MB	1024 MB SATA Simple-swap	Open bay
4364-44x	1.87 GHz	3040	2 MB	1024 MB SATA/SAS HS	Open bay
4364-52x	2.13 GHz	3050	2 MB	1024 MB SATA/SAS HS	Open bay
4364-54x	2.13 GHz	3050	2 MB	1024 MB SAS HS 2.5†	Open bay
4364-62x	2.40 GHz	3060	4 MB	1024 MB SATA/SAS HS	Open bay
4364-64x	2.40 GHz	3060	4 MB	1024 MB SAS HS 2.5†	Open bay
4365-1Bx	2.93 GHz	341	256 KB	512 MB SATA Simple-swap	Open bay
4365-2Bx	3.40 GHz	945	4 MB	512 MB SATA Simple-swap	Open bay
4365-4Bx	1.87 GHz	3040	2 MB	1024 MB SATA Simple-swap	Open bay
4365-4Dx	1.87 GHz	3040	2 MB	1024 MB SATA/SAS HS	Open bay
4365-5Bx	2.13 GHz	3050	2 MB	1024 MB SATA/SAS HS	Open bay
4365-5Dx	2.13 GHz	3050	2 MB	1024 MB SAS HS 2.5†	Open bay
4365-6Bx	2.40 GHz	3060	4 MB	1024 MB SATA/SAS HS	Open bay
4365-6Dx	2.40 GHz	3060	4 MB	1024 MB SAS HS 2.5†	Open bay

Note: All models have 351-watt power supplies; 4364 models include a CD-ROM; and 4365 models include a combination optical drive.

Additional features include:

- System board that supports 512 MB, 1 GB, and 2 GB 667 MHz PC2-5300 CL5 ECC DDR2 SDRAM DIMM memory
- HDD bays supporting
 - Simple-swap 3.5-inch SATA (with simple-swap tray)
 - Hot-swap 3.5-inch SAS 10,000 or 15,000 rpm or SATA 7,200 rpm
 - Hot-swap 2.5-inch SAS 10,000 rpm
- Dual full-duplex, Gigabit Ethernet PCI controllers that speed network communications to LAN clients

Function and expansion capacity

The System x3250 server with a 1U, 19-inch rack-optimized package supports installation of adapters, memory, and HDD options. Functions such as SVGA video, SATA controller, and two Gigabit (10/100/1000 Mbps) Ethernet controllers are integrated on the system board.

Features include:

- Rack-optimized design for 19-inch wide, industry-standard rack cabinets
- Two PCI-E adapter card slots, one full-height, one low-profile
- 351-watt worldwide, voltage-sensing power supply with auto restart that supports maximum configurations and minimizes operator intervention after a temporary power outage
- Up to five speed-controlled fans plus another two in the power supply that cool:
 - Power supply

- Drive bays
- Microprocessor and memory
- I/O

- 1 x 512 or 2 x 512 MB of 677 MHz PC2-5300 CL5 ECC DDR2 SDRAM DIMM memory standard (model dependent)
- Four DIMM sockets that support:
 - Up to 8 GB system memory
 - Mixing memory sizes
- One accessible 5.25-inch, slim-high bay (Ultrabay™) with 24x-10x CD-ROM drive or combination optical drive
- Two internal 3.5-inch or four 2.5-inch bays for HDDs
- SATA model with controller that supports standard or hot-swap 80, 160, or 250 GB simple-swap SATA HDDs
- SAS model with controller that supports 73, 146, and 300 GB 10,000 rpm hot-swap or 73 and 146 GB 15,000 rpm hot-swap HDDs
- Integrated ATI RN50b video with 16 MB of video memory
- Hardware support for IBM Remote Supervisor Adapter II Slimline

Systems management and control

System x3250 servers comply with the 2000 ATX Implementation Guidelines for optimal control and manageability of your network.

Supported features include:

- Base Systems Management with IPMI 1.5
- Wake on LAN supported on integrated Ethernet controllers
- Automatic server restart to help reduce downtime by restarting the server in the event of system hang
- Flash EEPROM write protection
- SMBus isolation that isolates one bus section and required system components during system power-down from other buses and components to prevent current leakage into devices without power

The System x3250 server also features IBM Director — a powerful, highly integrated systems management software solution built on industry standards and designed for ease of use. Now you can 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 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 server tools that integrates into the IBM Director interface and works with systems management monitoring functions contained in System x™ servers, such as predictive failure analysis enablement for HDDs.

The IT administrator can achieve comprehensive, virtual on-site control of System x servers through the ability to remotely:

- Inventory and display detailed system and component information
- Reset or power cycle the server
- Monitor and set threshold on server health, including:
 - Operating system load
 - Voltage
 - Temperature
- Set proactive alerts for critical server events, including:
 - Fans
 - Power supplies
- Define automated actions such as:
 - Send e-mail or page to an administrator
 - Execute a command or program
 - Pop up an error message to the IBM Director console
- Monitor and graph the usage of server resources such as:
 - Memory
 - Processor
 - HDDs
- Identify potential performance bottlenecks and react to prevent downtime
- Monitor, manage, and configure RAID subsystems, often without taking them offline

IBM Director integrates into leading workgroup and enterprise systems management environments through upward integration modules. The advanced management capabilities built into System x servers can be accessed from:

- Tivoli® Enterprise and Tivoli NetView®
- Computer Associates Unicenter TNG Framework
- Microsoft™ SMS
- Intel LANDesk™ Management Suite

World-class support tools and programs

The System x3250 server comes with a number of tools and programs that make ownership a positive experience. From the start, IBM can help you purchase a server, get it running, and keep it running over the long haul. IBM can help your company maintain ownership of technology leadership servers.

- One-year (model 4364) or three-year (model 4365) warranty (on parts and labor with limited warranty and next-business day (NBD) service, same-business day service, optionally available, protects your investment if a problem occurs.
- The ServerProven⁷ program lets you configure your server confidently with various devices and operating systems. This Web-based program provides compatibility information from actual testing of the System x3250 server with various adapters and devices.
- The ServerGuide™ CD library includes online publications, utilities, and drivers that assist you in loading of popular network operating systems.

SEO	Processor	Cache	Memory	Interface	HDD
436412U	2.93 GHz	341	256 KB	512 MB SATA	Simple-swap Open bay
436422U	3.40 GHz	945	4 MB	512 MB SATA	Simple-swap Open bay
436442U	1.87 GHz	3040	2 MB	1024 MB SATA	Simple-swap Open bay
436444U	1.87 GHz	3040	2 MB	1024 MB SATA/SAS	HS Open bay
436452U	2.13 GHz	3050	2 MB	1024 MB SATA/SAS	HS Open bay
436454U	2.13 GHz	3050	2 MB	1024 MB SAS	HS 2.5† Open bay
436462U	2.40 GHz	3060	4 MB	1024 MB SATA/SAS	HS Open bay
436464U	2.40 GHz	3060	4 MB	1024 MB SAS	HS 2.5† Open bay
43651BU	2.93 GHz	341	256 KB	512 MB SATA	Simple-swap Open bay
43652BU	3.40 GHz	945	4 MB	512 MB SATA	Simple-swap Open bay
43654BU	1.87 GHz	3040	2 MB	1024 MB SATA	Simple-swap Open bay
43654DU	1.87 GHz	3040	2 MB	1024 MB SATA/SAS	HS Open bay
43655BU	2.13 GHz	3050	2 MB	1024 MB SATA/SAS	HS Open bay
43655DU	2.13 GHz	3050	2 MB	1024 MB SAS	HS 2.5† Open bay
43656BU	2.40 GHz	3060	4 MB	1024 MB SATA/SAS	HS Open bay
43656DU	2.40 GHz	3060	4 MB	1024 MB SAS	HS 2.5† Open bay

Note: All models have 351-watt power supplies; 4364 models include a CD-ROM; and 4365 models include a combination optical drive.

Accessibility by people with disabilities

A U.S. Section 508 Voluntary Product Accessibility Template containing details on the products accessibility compliance can be requested at

http://www-3.ibm.com/able/product_accessibility/index.html

Product positioning

System x3250 servers are positioned as the entry 1U servers of the System x rack-optimized product line. It is an ideal server for the following application and environments:

- Web caching
- Front-end Web serving
- Server farms
- Telecommunications
- Active Directory services

The System x3250 is a single-socket server that is easy to deploy, manage, and service. It provides outstanding performance and reliability at an entry-level price.

Simplified computing

The x3250 provides remote monitoring and alerting capabilities that provide strong systems management. In addition:

- Simple-swap and hot-swap HDDs offer easy serviceability without removing the system from the rack
- Optional upgrade to the Remote Supervisor Adapter II SlimLine for remote management even when the server is powered down
- Integrated hardware RAID 0 or RAID 1 without using a slot
- Rack-optimized, 1U form factor with the ability to support four 2.5-inch SAS HDDs

Performance, protection at entry-level price

Designed for high-performance, dual-core 64-bit processors, the x3250 can optimize performance of your Web and network infrastructure. For a performance boost, choose models with Intel Xeon or Intel Pentium D processors, while those running less demanding applications may opt for Intel Celeron technology.

Serial Attached SCSI (SAS) HDDs and PCI-Express ensure even greater integrated I/O performance and compatibility with next-generation devices for added long-term investment protection.

Reference information

- ¹ GHz measures only microprocessor internal clock speed, not application performance. Many factors affect application performance.
- ² When referring to GB, 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 For information on the IBM Statement of Limited Warranty, call 800-IBM-SERV (426-7378) or contact your IBM representative or reseller. Copies are available upon request.
- ⁶ You may be asked certain diagnostic questions before a technician is sent.
- ⁷ IBM makes no warranties, expressed or implied, regarding non-IBM products and services that are ServerProven®, including but not limited to the implied warranties of merchantability and fitness for a particular purpose. These products are offered and warranted solely by third parties.

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 106-745

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=106-745>

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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 x3250 server:

- *System x3250 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 System x3250 server.
- *ServerGuide™* contains online publications and drivers to support the System x3250 server. In addition, it includes a set of easy-to-use utilities for assisted installation via CD of several popular network operating systems.

The *System x3250 Installation Guide* and *Problem Determination and Service Guide*, in U.S. English versions, are available at

<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

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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 is 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 will 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 onsite 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

Physical specifications

The System x3250:

	4364-12x 4365-1Bx	4364-22x 4365-2Bx
Processor	Celeron(R) D 341	Pentium(R) D 945
Int. speed	2.93 GHz	3.4 GHz
Ext. speed	533 MHz	800 MHz
Number standard	1	1
Maximum	1	1
L2 cache	256 KB	4 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	8.0 GB	8.0 GB
Video	SVGA	SVGA
Memory	16 MB	16 MB
HDD controller	SATA	SATA
Channels	1	1
Connector int.	2	2
Connector ext.	0	0
IDE controller	Parallel	Parallel
Channels	1	1
Connector int.	1	1
Connector ext.	0	0
Standard disk	0	0

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Total bays	3	3	Connector int.	2	2
5.25-in Ultrabay(TM)	1	1	Connector ext.	0	0
3.5-in slim	2	2	IDE controller	Parallel	Parallel
3.5-in ultra-slim	0	0	Channels	1	1
Hot-swap	0	0	Connector int.	1	1
Internal capacity	1 TB(8)	1 TB(8)	Connector ext.	0	0
Bays available	2	2	Standard disk	0	0
5.25-in slim	0	0	Total bays	3	5
3.5-in slim	2	2	5.25-in Ultrabay	1	1
Hot-swap	0	0	3.5-in slim	2	0
Total slots	2(9)	2(9)	2.5-in slim	0	4
PCI-E x8	2	2	3.5-in ultra-slim	0	0
Slots available	2	2	Hot-swap	2	4
Management proc.	No	No	Internal capacity	1 TB(8)	292 GB(8)
Ethernet controller	2 x 1 Gb	2 x 1 Gb	Bays available	2	4
Optical drive (IDE)	(10)	(10)	5.25-in slim	0	0
Diskette drive	0	0	3.5-in slim	2	0
Power supply	351 watt	351 watt	2.5-in slim	0	4
Number standard	1	1	Hot-swap	2	4
Hot-swap	No	No	Total slots	2(9)	2(9)
Redundant power	No	No	PCI-E x8	2	2
Auto restart	Yes	Yes	Slots available	2	2
			Management proc.	No	No
The System x3250:			Ethernet controller	2 x 1 Gb	2 x 1 Gb
	4364-42x	4364-44x	Optical drive (IDE)	(10)	(10)
	4365-4Bx	4365-4Dx	Diskette drive	0	0
			Power supply	351 watt	351 watt
Processor	Xeon 3040	Xeon 3040	Number standard	1	1
Int. speed	1.87 GHz	1.87 GHz	Hot-swap	No	No
Ext. speed	1066 MHz	1066 MHz	Redundant power	No	No
Number standard	1	1	Auto restart	Yes	Yes
Maximum	1	1			
L2 cache	2 MB	2 MB	The System x3250:		
Memory (667 MHz SDRAM)	1024 MB ECC	1024 MB ECC		4364-62x	4364-64x
DIMMs	2 x 512 MB	2 x 512 MB		4365-6Bx	4365-6Dx
DIMM sockets	4	4	Processor	Xeon 3060	Xeon 3060
Capacity	8.0 GB	8.0 GB	Int. speed	2.40 GHz	2.40 GHz
Video	SVGA	SVGA	Ext. speed	1066 MHz	1066 MHz
Memory	16 MB	16 MB	Number standard	1	1
HDD controller	SATA	SATA/SAS	Maximum	1	1
Channels	1	1	L2 cache	4 MB	4 MB
Connector int.	2	2	Memory (667 MHz SDRAM)	1024 MB ECC	1024 MB ECC
Connector ext.	0	0	DIMMs	2 x 512 MB	2 x 512 MB
IDE controller	Parallel	Parallel	DIMM sockets	4	4
Channels	1	1	Capacity	8.0 GB	8.0 GB
Connector int.	1	1	Video	SVGA	SVGA
Connector ext.	0	0	Memory	16 MB	16 MB
Standard disk	0	0	HDD controller	SATA/SAS	SAS
Total bays	3	3	Channels	1	1
5.25-in Ultrabay	1	1	Connector int.	2	2
3.5-in slim	2	2	Connector ext.	0	0
3.5-in ultra-slim	0	0	IDE controller	Parallel	Parallel
Hot-swap	0	2	Channels	1	1
Internal capacity	1 TB(8)	1 TB(8)	Connector int.	1	1
Bays available	2	2	Connector ext.	0	0
5.25-in slim	0	0	Standard disk	0	0
3.5-in slim	2	2	Total bays	3	5
Hot-swap	0	2	5.25-in Ultrabay	1	1
Total slots	2(9)	2(9)	3.5-in slim	2	0
PCI-E x8	2	2	2.5-in slim	0	4
Slots available	2	2	3.5-in ultra-slim	0	0
Management proc.	No	No	Hot-swap	2	4
Ethernet controller	2 x 1 Gb	2 x 1 Gb	Internal capacity	1 TB(8)	292 GB(8)
Optical drive (IDE)	(10)	(10)	Bays available	2	4
Diskette drive	0	0	5.25-in slim	0	0
Power supply	351 watt	351 watt	3.5-in slim	2	0
Number standard	1	1	2.5-in slim	0	4
Hot-swap	No	No	Hot-swap	2	4
Redundant power	No	No	Total slots	2(9)	2(9)
Auto restart	Yes	Yes	PCI-E x8	2	2
			Slots available	2	2
The System x3250:			Management proc.	No	No
	4364-52x	4364-54x	Ethernet controller	2 x 1 Gb	2 x 1 Gb
	4365-5Bx	4365-5Dx	Optical drive (IDE)	(10)	(10)
			Diskette drive	0	0
Processor	Xeon 3050	Xeon 3050	Power supply	351 watt	351 watt
Int. speed	2.13 GHz	2.13 GHz	Number standard	1	1
Ext. speed	1066 MHz	1066 MHz	Hot-swap	No	No
Number standard	1	1	Redundant power	No	No
Maximum	1	1	Auto restart	Yes	Yes
L2 cache	2 MB	2 MB			
Memory (667 MHz SDRAM)	1024 MB ECC	1024 MB ECC			
DIMMs	2 x 512 MB	2 x 512 MB			
DIMM sockets	4	4			
Capacity	8.0 GB	8.0 GB			
Video	SVGA	SVGA			
Memory	16 MB	16 MB			
HDD controller	SATA/SAS	SAS			
Channels	1	1			

⁸ Capacities are based on installation of two 500 GB SATA HDDs or four 2.5-inch 73 GB SAS HDDs. Refer to the System x Web page or the Sales Manual for the latest information on supported HDD options or visit

<http://www.ibm.com/pc/us/compat>

⁹ Both adapter slots are half-length, one is full-height and one is low-profile, supporting cards not exceeding 180 mm (7.1 in) in length.

¹⁰ 4364 24x-10x drive

4365 Combination drive

24x-10x CD-ROM drive characteristics

- Formatted capacity: 650 MB
- Average access time: 110 ms
- Burst data transfer rate: 16.6 MB/s (ATA PIO Mode 4)
- Technology: Full constant angular velocity (CAV)
- Buffer size: 1 MB

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

- Sustained data transfer rates:
 - DVD-ROM (6.5x-16x CAV, 4.7 GB DVD-ROM read): 8.7 to 22.1 MB/s
 - DVD-ROM (3.3x-8x CAV, 8.5 GB dual-layer read): 4.4 to 11.0 MB/s
 - DVD-R/RW (3.3x-8x CAV, 4.7 GB DVD-R/RW read): 4.45 to 10.8 MB/s
 - DVD+R/RW (3.3x-8x CAV, 4.7 GB DVD+R/RW read): 4.45 to 10.8 MB/s
 - DVD+R D/L (3.3x-8x CAV, 8.5 GB DVD+R read): 4.45 to 10.8 MB/s
 - DVD-RAM (2x-5x CAV, 4.7 GB DVD-RAM read): 2.7 to 6.7 MB/s
 - CD-ROM (20x-48x CAV, CD-ROM read): 3.0 to 7.2 MB/s
 - CD-R/RW (18x-40x CAV, CD-R/RW read): 2.7 to 6.0 MB/s
 - CD-ROM (20x-48x CAV, CD-ROM write): 3.0 to 7.2 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: 100 ms
 - CD-RW including latency: 100 ms
 - 2 MB data buffer

Video subsystem

- ATI ES1000 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(TM) Windows(TM) 2000/2003 (32- and -64 bit) and Linux(TM) (all distributions)

Resolution	Colors	Refresh rate (Hz)
640 x 480 x 8	256	60, 72, 75, 85
640 x 480 x 16	64K	60, 72, 75, 85
640 x 480 x 32	16M	60, 72, 75, 85
800 x 600 x 8	256	60, 70, 72, 75, 85
800 x 600 x 16	64K	60, 70, 72, 75, 85
800 x 600 x 32	16M	60, 70, 72, 75, 85
1024 x 768 x 8	256	60, 70, 72, 75, 85
1024 x 768 x 16	64K	60, 70, 72, 75, 85
1024 x 768 x 32	16M	60, 70, 72, 75, 85

Dimensions (1U rack drawer)

- Width: 440 mm (17.32 in)
- Depth: 559 mm (22.00 in)
- Height: 43 mm (1.75 in)
- Weight:
 - Minimum configuration: 11.0 kg (24.4 lb)
 - Maximum configuration: 12.7 kg (28 lb)

Electrical

- 100 to 127 (nominal) V ac; 50 Hz or 60 Hz; 6.0 A
- 200 to 240 (nominal) V ac; 50 Hz or 60 Hz; 3.0 A
- Input kilovolt-amperes (kVA) (approximately):
 - Minimum configuration: 0.129 kVA
 - Maximum configuration: 0.313 kVA
- Btu output:
 - Ship configuration: 432 Btu/hr (127 watts)
 - Full configuration: 1048 Btu/hr (307 watts)
- Noise level: Horizontal position:
 - 6.5 bels (idle)
 - 6.5 bels (operating)

Note: The noise emission level stated is the declared (upper limit) sound power level in bels for a random sample of machines. All measurements are made in accordance with ISO 7779 and reported in conformance with ISO 9296.

System x3250 servers are intended for use as rack-drawer servers and are tested and designed to operate in a horizontal position.

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

- Peripheral Component Interconnect (PCI) specification 2.2
- Hardware-enabled to meet the International Organization for Standardization (ISO) 9241, Part 3

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 60950-1¹¹
- CAN C22.2 No. 60950-1-03
- NOM-019¹¹

¹¹ These servers are certified by the respective UL and NOM agencies. NOM certification will be available on November 20, 2006.

Operating environment

- Air temperature: Server on
 - 10.0° to 35.0°C (50° to 95°F); altitude: 0 to 914.4 m (3,000 ft)
 - 10.0° to 32.0°C (50° to 89.6°F); altitude: 914.4 m (3,000 ft) to 2,133 m (6,998 ft)

Server off

- 10.0° to 43.0°C (50° to 109.4°F); maximum altitude: 2,133 m (6,998 ft)

Shipping

- -40° to 60°C (-40° to 140°F)
- Relative humidity: 8% to 80%
- Maximum altitude: 2,133 m (7,000 ft)

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 x3250 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
 - Red Hat Enterprise Linux 4 ES
 - Red Hat Enterprise Linux 4 WS
 - SUSE Linux Enterprise Server 9 for AMD64/EM64T

The following network operating systems are supported as preloads in the System x3250 server:

- Microsoft:
 - Windows Server 2003 R2 Standard Edition
 - Windows Server 2003 R2 32-bit Enterprise Edition
 - Windows Server 2003 R2 Standard x64 Edition
- Linux:
 - Red Hat Enterprise Linux 4 AS
 - Red Hat Enterprise Linux 4 ES

- Red Hat Enterprise Linux 4 WS

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 x3250 systems contain licensed system programs that include set configuration, set features, and test programs. System BIOS (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.

For detailed information about IBM and non-IBM devices, adapters, software, and network operating systems supported with System x servers, visit

<http://www.ibm.com/pc/us/compat>

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

Limitations

- Mixing different-speed HDDs (10,000 rpm with 15,000 rpm) will impact storage performance.
- Mixing SAS and SATA HDDs will impact storage performance.
- To ensure proper air flow for cooling, the System x3250 server requires a rack with a perforated door.
- Processor upgrades are not supported.
- Use the version of ServerGuide shipped with the system, or a later version, to load software and drivers. Earlier versions of ServerGuide may not be compatible with the server.
- When using the Remote Supervisor Adapter II SlimLine, you cannot install an adapter in expansion slot 1 due to mechanical interference.

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

Planning information

Customer responsibilities: Designated as customer setup. Customer setup instructions are shipped with the system.

Bay configuration

The System x3250 server contains three or five drive bays. One bay contains the standard CD-ROM drive.

- Two 3.5-inch, slim-high bays located side-by-side on the lower front section of the server support installation of various SATA or SAS HDDs.
- Four 2.5-inch bays located in the lower front section supports SAS HDDs.

Cabling

- The System x3250 server contains an integrated IDE controller cabled directly to the optical drive.

- System x3250 SATA and SAS models contain a two-drop cable to support two HDDs.
- System x3250 models with SAS contain a mini-SAS cable and a power interposal cable to support two or four hot-swap HDDs.

Rack installations

System x3250 1U, rack-drawer models can be installed in a 48-cm (19-in) rack cabinet designed for 66-cm (26-in) deep devices, such as the IBM 42U Standard Rack or IBM 25U Standard Rack.

If you use a non-IBM rack, the cabinet must meet the EIA-310-D standards with a depth of at least 71 cm (28 in). Also, adequate space (approximately two 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.

Power considerations

The System x3250 server includes a standard 351 W power supply. This power supply provides sufficient power to run the server fully configured with supported devices.

Cable orders: The dual 10/100/1000 Mbps, full-duplex Ethernet controllers, standard with the System x3250 server, are connected directly to independent RJ-45 connectors. The RJ-45 connectors provide a 10BaseT, 100Base-TX, or 1000Base-TX interface for connecting a 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 Mbps or more 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 x3250 server requires about 20 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: The system unit carton contains:

- System unit
- Rack kit
- Ship group tray:
 - One system unit power cord
 - System x3250 Installation Guide
 - Safety flyer
 - Rack install instructions
 - Documentation (CD)
 - Diagnostics (CD)
 - ServerGuide (CD)
 - IBM Director (CD)
 - Contents flyer

System x3250 models are shipped as a single package. The country kit carton is contained inside the top portion of the system unit carton.

Security, auditability, and control

Security and auditability features:

- Power-on and privileged access password functions control who has access to the data and server setup program.

- Selectable boot sequence can prevent unauthorized installation of software or removal of data from the diskette drive.

These servers are intended to be installed and secured in a rack. It is the customer's responsibility to ensure that the server and rack installation are secure to prevent sensitive data from being removed.

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 (model 4364) — One year
- System hardware (model 4365) — 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 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, 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
- Optical 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 a suitable working area to allow disassembly and reassembly of the IBM machine. The area must be clean, well-lit, and suitable for the purpose. 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-3.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, 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 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 installation, at no additional charge, under one of the on-site service levels specified.

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

The following warranty service upgrade options are available:

- On-site service — IBM on-site repair (IOR), 9 hours per day, Monday through Friday excluding holidays, 4-hour average response.
- On-site service — IBM on-site repair (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 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: IBM On-site repair (IOR). IBM will repair the failing machine at your location and verify its operation. You must provide a suitable working area to allow disassembly and reassembly of the IBM machine.

The area must be clean, well-lit, and suitable for the purpose.

The following on-site service options are available:

- On-site service — IBM on-site repair (IOR), 9 hours per day, Monday through Friday excluding holidays, next-business-day response.
- On-site service — IBM on-site repair (IOR), 9 hours per day, Monday through Friday excluding holidays, 4-hour average response.
- On-site service — IBM on-site repair (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, on-site service.

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

The following warranty service upgrade option is available: On-site service — IBM on-site repair (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 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: IBM On-site repair (IOR), IBM will repair the failing machine at your location and verify its operation. You must provide a suitable working area to allow disassembly and reassembly of the IBM machine. The area must be clean, well-lit, and suitable for the purpose.

The following on-site service options are available:

- On-site service — IBM on-site repair (IOR), 9 hours per day, Monday through Friday excluding holidays, next business day.
- On-site service — IBM on-site repair (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/its/us/servicepac.html>

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: None

Prices

The following are newly announced features on the specified models of the IBM System x 4364 machine type:

Description	Model number	Feature number	Purchase price	Initial/MES/Both/Support	CSU
IBM System x3250	AC1		\$ 0		Yes
IBM System x3250	MC1		0		Yes
System Packaging -- US	AC1	0792	NC	Initial	
	MC1			Initial	
CPU Retention Module	AC1	0922	NC	Initial	
	MC1			Initial	
x3250 Revision 1 System Planar	AC1	1128	NC	Initial	
	MC1			Initial	
x3250 Revision 2 System Planar	AC1	1129	NC	Initial	
	MC1			Initial	
Dual Core Intel Xeon 3040 (1.87 GHz / 2 MB L2)	AC1	1271	415	Initial	
	MC1			Initial	
Dual Core Intel Xeon 3050 (2.13 GHz / 2 MB L2)	AC1	1272	499	Initial	
	MC1			Initial	
Dual Core Intel Xeon 3060 (2.4 GHz / 4 MB L2)	AC1	1273	659	Initial	
	MC1			Initial	
Intel Celeron D Processor 341 2.93 GHz/533 MHz, 256 KB L2	AC1	1274	79	Initial	
	MC1			Initial	
Dual Core Intel Pentium D 945 (3.4 GHz / 2x2 MB L2)	AC1	1302	425	Initial	
	MC1			Initial	
NetXtreme 1000 Express G Ethernet Adapter	AC1	1486	169	Initial	
	MC1			Initial	
Remote Supervisor Adapter II Slimline	AC1	1607	385	Initial	
	MC1			Initial	
IBM SAS HBA Controller	AC1	1681	329	Initial	
	MC1			Initial	
Capacity Scheduling Service	AC1	1772	NC	Initial	
	MC1			Initial	
Custom SLA Scheduling Service	AC1	1796	NC	Initial	
	MC1			Initial	
512 MB DDR2 667 SDRAM DIMM Memory	AC1	1902	99	Initial	
	MC1			Initial	
1 GB DDR2 667 SDRAM DIMM Memory	AC1	1903	279	Initial	
	MC1			Initial	
2 GB DDR2 667 SDRAM DIMM Memory	AC1	1904	1,599	Initial	
	MC1			Initial	
BIOS GBM	AC1	2007	NC	Initial	
	MC1			Initial	
Front Bezel	AC1	2046	NC	Initial	
	MC1			Initial	
2.5t DASD cage	AC1	2087	NC	Initial	
	MC1			Initial	
3.5t DASD cage	AC1	2088	NC	Initial	
	MC1			Initial	
SAS FILLER 3.5t	AC1	2089	NC	Initial	
	MC1			Initial	
SAS FILLER 2.5t	AC1	2090	NC	Initial	
	MC1			Initial	
SATA FILLER 3.5t	AC1	2091	NC	Initial	
	MC1			Initial	
Custom Asset Tagging -- Standard	AC1	2200	10	Initial	
	MC1			Initial	
Custom Asset Tagging -- Standard	AC1	2201	20	Initial	
	MC1			Initial	
Server Custom Image	AC1	2204	35	Initial	
	MC1			Initial	
Custom Software/Firmware Setting -- Standard	AC1	2208	10	Initial	
	MC1			Initial	
Custom Software/Firmware Setting -- Enhanced	AC1	2209	20	Initial	
	MC1			Initial	
Custom RAID Configuration	AC1	2212	250	Initial	

	MC1			Initial
Custom Labeling	AC1	2220	5	Initial
	MC1			Initial
Custom Palletization	AC1	2221	5	Initial
	MC1			Initial
Request for a new Vendor	AC1	2247	NC	Initial
Logo Hardware	MC1			Initial
Request for an existing	AC1	2248	NC	Initial
IBM Feature	MC1			Initial
Request for an existing	AC1	2249	NC	Initial
Public RPQ	MC1			Initial
Base Hardware	AC1	2268	589	Initial
	MC1			Initial
RAID Configuration	AC1	2302	150	Initial
	MC1			Initial
Rack Installation of	AC1	2305	75	Initial
1U Component	MC1			Initial
Department of Defense	AC1	2320	NC	Initial
UID Label	MC1			Initial
2U Bracket for IBM SAS	AC1	2769	NC	Initial
HBA Controller, 25R8072	MC1			Initial
Install in Rack 01	AC1	3101	NC	Initial
	MC1			Initial
Install in Rack 02	AC1	3102	NC	Initial
	MC1			Initial
Install in Rack 03	AC1	3103	NC	Initial
	MC1			Initial
Install in Rack 04	AC1	3104	NC	Initial
	MC1			Initial
Install in Rack 05	AC1	3105	NC	Initial
	MC1			Initial
Install in Rack 06	AC1	3106	NC	Initial
	MC1			Initial
Install in Rack 07	AC1	3107	NC	Initial
	MC1			Initial
Install in Rack 08	AC1	3108	NC	Initial
	MC1			Initial
Install in Rack 09	AC1	3109	NC	Initial
	MC1			Initial
Install in Rack 10	AC1	3110	NC	Initial
	MC1			Initial
Install in Rack 11	AC1	3111	NC	Initial
	MC1			Initial
Install in Rack 12	AC1	3112	NC	Initial
	MC1			Initial
Install in Rack 13	AC1	3113	NC	Initial
	MC1			Initial
Install in Rack 14	AC1	3114	NC	Initial
	MC1			Initial
Install in Rack 15	AC1	3115	NC	Initial
	MC1			Initial
Install in Rack 16	AC1	3116	NC	Initial
	MC1			Initial
Install in Rack 17	AC1	3117	NC	Initial
	MC1			Initial
Install in Rack 18	AC1	3118	NC	Initial
	MC1			Initial
Install in Rack 19	AC1	3119	NC	Initial
	MC1			Initial
Install in Rack 20	AC1	3120	NC	Initial
	MC1			Initial
Install in Rack 21	AC1	3121	NC	Initial
	MC1			Initial
Install in Rack 22	AC1	3122	NC	Initial
	MC1			Initial
Install in Rack 23	AC1	3123	NC	Initial
	MC1			Initial
Install in Rack 24	AC1	3124	NC	Initial
	MC1			Initial
Install in Rack 25	AC1	3125	NC	Initial
	MC1			Initial
Install in Rack 26	AC1	3126	NC	Initial

Install in Rack 27	MC1			Initial
	AC1	3127	NC	Initial
	MC1			Initial
Install in Rack 28	AC1	3128	NC	Initial
	MC1			Initial
Install in Rack 29	AC1	3129	NC	Initial
	MC1			Initial
Install in Rack 30	AC1	3130	NC	Initial
	MC1			Initial
Install in Rack 31	AC1	3131	NC	Initial
	MC1			Initial
Install in Rack 32	AC1	3132	NC	Initial
	MC1			Initial
Install in Rack 33	AC1	3133	NC	Initial
	MC1			Initial
Install in Rack 34	AC1	3134	NC	Initial
	MC1			Initial
Install in Rack 35	AC1	3135	NC	Initial
	MC1			Initial
Install in Rack 36	AC1	3136	NC	Initial
	MC1			Initial
Install in Rack 37	AC1	3137	NC	Initial
	MC1			Initial
Install in Rack 38	AC1	3138	NC	Initial
	MC1			Initial
Install in Rack 39	AC1	3139	NC	Initial
	MC1			Initial
Install in Rack 40	AC1	3140	NC	Initial
	MC1			Initial
Install in Rack 41	AC1	3141	NC	Initial
	MC1			Initial
Install in Rack 42	AC1	3142	NC	Initial
	MC1			Initial
Install in Rack 43	AC1	3143	NC	Initial
	MC1			Initial
Install in Rack 44	AC1	3144	NC	Initial
	MC1			Initial
Install in Rack 45	AC1	3145	NC	Initial
	MC1			Initial
Install in Rack 46	AC1	3146	NC	Initial
	MC1			Initial
Install in Rack 47	AC1	3147	NC	Initial
	MC1			Initial
Install in Rack 48	AC1	3148	NC	Initial
	MC1			Initial
Install in Rack 49	AC1	3149	NC	Initial
	MC1			Initial
Install in Rack 50	AC1	3150	NC	Initial
	MC1			Initial
Install in Rack 51	AC1	3151	NC	Initial
	MC1			Initial
Install in Rack 52	AC1	3152	NC	Initial
	MC1			Initial
Install in Rack 53	AC1	3153	NC	Initial
	MC1			Initial
Install in Rack 54	AC1	3154	NC	Initial
	MC1			Initial
Install in Rack 55	AC1	3155	NC	Initial
	MC1			Initial
Install in Rack 56	AC1	3156	NC	Initial
	MC1			Initial
Install in Rack 57	AC1	3157	NC	Initial
	MC1			Initial
Install in Rack 58	AC1	3158	NC	Initial
	MC1			Initial
Install in Rack 59	AC1	3159	NC	Initial
	MC1			Initial
Install in Rack 60	AC1	3160	NC	Initial
	MC1			Initial
Install in Rack 61	AC1	3161	NC	Initial
	MC1			Initial
Install in Rack 62	AC1	3162	NC	Initial

Install in Rack 63	MC1			Initial
	AC1	3163	NC	Initial
	MC1			Initial
Install in Rack 64	AC1	3164	NC	Initial
	MC1			Initial
Rack location U01	AC1	3201	NC	Initial
	MC1			Initial
Rack location U02	AC1	3202	NC	Initial
	MC1			Initial
Rack location U03	AC1	3203	NC	Initial
	MC1			Initial
Rack location U04	AC1	3204	NC	Initial
	MC1			Initial
Rack location U05	AC1	3205	NC	Initial
	MC1			Initial
Rack location U06	AC1	3206	NC	Initial
	MC1			Initial
Rack location U07	AC1	3207	NC	Initial
	MC1			Initial
Rack location U08	AC1	3208	NC	Initial
	MC1			Initial
Rack location U09	AC1	3209	NC	Initial
	MC1			Initial
Rack location U10	AC1	3210	NC	Initial
	MC1			Initial
Rack location U11	AC1	3211	NC	Initial
	MC1			Initial
Rack location U12	AC1	3212	NC	Initial
	MC1			Initial
Rack location U13	AC1	3213	NC	Initial
	MC1			Initial
Rack location U14	AC1	3214	NC	Initial
	MC1			Initial
Rack location U15	AC1	3215	NC	Initial
	MC1			Initial
Rack location U16	AC1	3216	NC	Initial
	MC1			Initial
Rack location U17	AC1	3217	NC	Initial
	MC1			Initial
Rack location U18	AC1	3218	NC	Initial
	MC1			Initial
Rack location U19	AC1	3219	NC	Initial
	MC1			Initial
Rack location U20	AC1	3220	NC	Initial
	MC1			Initial
Rack location U21	AC1	3221	NC	Initial
	MC1			Initial
Rack location U22	AC1	3222	NC	Initial
	MC1			Initial
Rack location U23	AC1	3223	NC	Initial
	MC1			Initial
Rack location U24	AC1	3224	NC	Initial
	MC1			Initial
Rack location U25	AC1	3225	NC	Initial
	MC1			Initial
Rack location U26	AC1	3226	NC	Initial
	MC1			Initial
Rack location U27	AC1	3227	NC	Initial
	MC1			Initial
Rack location U28	AC1	3228	NC	Initial
	MC1			Initial
Rack location U29	AC1	3229	NC	Initial
	MC1			Initial
Rack location U30	AC1	3230	NC	Initial
	MC1			Initial
Rack location U31	AC1	3231	NC	Initial
	MC1			Initial
Rack location U32	AC1	3232	NC	Initial
	MC1			Initial
Rack location U33	AC1	3233	NC	Initial
	MC1			Initial
Rack location U34	AC1	3234	NC	Initial

	MC1			Initial
Rack location U35	AC1	3235	NC	Initial
	MC1			Initial
Rack location U36	AC1	3236	NC	Initial
	MC1			Initial
Rack location U37	AC1	3237	NC	Initial
	MC1			Initial
Rack location U38	AC1	3238	NC	Initial
	MC1			Initial
Rack location U39	AC1	3239	NC	Initial
	MC1			Initial
Rack location U40	AC1	3240	NC	Initial
	MC1			Initial
Rack location U41	AC1	3241	NC	Initial
	MC1			Initial
Rack location U42	AC1	3242	NC	Initial
	MC1			Initial
CD-ROM Ultrabay Enhanced(TM) Drive	AC1	4141	39	Initial
	MC1			Initial
Multi-Burner Ultrabay Enhanced Drive	AC1	4143	179	Initial
	MC1			Initial
CD-RW/DVD Combo V Ultrabay Enhanced	AC1	4144	159	Initial
	MC1			Initial
Rack Mount Kit	AC1	4256	44	Initial
	MC1			Initial
Hot-Swap SAS Kit 2.5t	AC1	4346	279	Initial
	MC1			Initial
Simple-Swap Kit 3.5t	AC1	4348	19	Initial
	MC1			Initial
Hot-Swap SAS Kit 3.5t	AC1	4349	229	Initial
	MC1			Initial
Pearl Rack 2 Post Mount Kit	AC1	4350	39	Initial
	MC1			Initial
Simple Swap SATA RAID Kit	AC1	4367	149	Initial
	MC1			Initial
Customer Provided and Installed - Red Hat Enterprise Linux 4 ES for AMD64/EM64T	AC1	4714	NC	Initial
Customer Provided and Installed - Microsoft Windows 2000 Server	AC1	4716	NC	Initial
Customer Provided and Installed - Microsoft Windows 2000 Advanced Server	AC1	4729	NC	Initial
Customer Provided and Installed - Red Hat Enterprise Linux 4 WS for x86	AC1	4732	NC	Initial
Customer Provided and Installed - Microsoft Windows Server 2003, Enterprise Edition	AC1	4734	NC	Initial
Customer Provided and Installed - Microsoft Windows Server 2003, Standard Edition	AC1	4735	NC	Initial
Customer Provided and Installed - Microsoft Windows Server 2003, Web Edition	AC1	4736	NC	Initial
Customer Provided and Installed - Microsoft Windows Server 2003, Enterprise x64 Edition	AC1	4737	NC	Initial
Customer Provided and Installed - Red Hat Enterprise Linux 3 WS for x86	AC1	4741	NC	Initial
Customer Provided and Installed - Red Hat	AC1	4742	NC	Initial

Enterprise Linux 4 WS for AMD64/EM64T Customer Provided and Installed - Red Hat Enterprise Linux 4 AS for AMD64/EM64T	AC1	4743	NC	Initial
Customer Provided and Installed - SUSE LINUX Enterprise Server 9 for x86	AC1	4744	NC	Initial
Customer Provided and Installed - Red Hat Enterprise Linux 4 ES for x86	AC1	4745	NC	Initial
Customer Provided and Installed - Red Hat Enterprise Linux 4 AS for x86	AC1	4746	NC	Initial
Customer Provided and Installed - SUSE LINUX Enterprise Server 9 for AMD64/EM64T	AC1	4747	NC	Initial
Customer Provided and Installed - Microsoft Windows Server 2003, Standard x64 Edition	AC1	4748	NC	Initial
Customer Provided and Installed - NetWare 6.5	AC1	4749	NC	Initial
Customer Provided and Installed - Microsoft Windows Small Business Server 2003	AC1	4758	NC	Initial
Customer Provided and Installed - Red Hat Enterprise Linux 3 AS for x86	AC1	4759	NC	Initial
Customer Provided and Installed - Red Hat Enterprise Linux 3 ES for x86	AC1	4763	NC	Initial
160 GB 7200 rpm Hot-Swap SATA HDD	AC1 MC1	5150	139	Initial Initial
250 GB 7200 rpm Hot-Swap SATA HDD	AC1 MC1	5151	239	Initial Initial
300 GB 10K 3.5t Hot-Swap SAS HDD	AC1 MC1	5156	649	Initial Initial
36 GB 10K 2.5t Hot-Swap SAS HDD	AC1 MC1	5158	279	Initial Initial
73 GB 10K 2.5t Hot-Swap SAS HDD	AC1 MC1	5159	349	Initial Initial
36 GB 15K 3.5t Hot-Swap SAS HDD	AC1 MC1	5160	249	Initial Initial
73 GB 15K 3.5t Hot-Swap SAS HDD	AC1 MC1	5161	379	Initial Initial
146 GB 15K 3.5t Hot-Swap SAS HDD	AC1 MC1	5162	599	Initial Initial
73 GB 10K 3.5t Hot-Swap SAS HDD	AC1 MC1	5163	299	Initial Initial
146 GB 10K 3.5t Hot-Swap SAS HDD	AC1 MC1	5164	369	Initial Initial
500 GB 7200 rpm 3.5t Hot-Swap SATA HDD	AC1 MC1	5196	699	Initial Initial
500 GB 7200 rpm 3.5t Simple-Swap SATA HDD	AC1 MC1	5288	699	Initial Initial
80 GB 7200 rpm 3.5t Simple-Swap SATA HDD	AC1 MC1	5290	99	Initial Initial
160 GB 7200 rpm 3.5t Simple-Swap SATA HDD	AC1 MC1	5291	149	Initial Initial
250 GB 7200 rpm 3.5t Simple-Swap SATA HDD	AC1 MC1	5292	259	Initial Initial
80 GB 7200 rpm Hot-Swap	AC1	5299	99	Initial

SATA HDD	MC1			Initial
1.5m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable	AC1	6201	0	Initial
Rack power cable - 2.8m, 10A/100-250V, C13 to IEC 320-C20 (WW)	MC1			Initial
Line cord - 4.3M, 10A/125V, C13 to NEMA 5-15P (US)	AC1	6207	0	Initial
Rack power cable - 2.8m, 100-240V, C13 to IEC 320-C14 (WW)	AC1	6311	0	Initial
Line cord - 2.8m, 100-120V, C13 to NEMA 5-15P (US)	MC1			Initial
Rack power cable - 2.0m, 125-250V, C13 to IEC 320-C14 (WW)	AC1	6316	0	Initial
Line cord - 1.8m, 10A/250V, C13 to NEMA 6-15P (US)	MC1			Initial
1.8m, 10A/120V, C13 to NEMA 5-15P (US) Line Cord	AC1	6369	0	Initial
Line cord - 2.8m, 10A/250V, C13 to NEMA 6-15P (US)	MC1			Initial
No HDD Selected	AC1	8026	NC	Initial
Consolidate Shipment	MC1			Initial
e1350 Solution Component	AC1	8031	NC	Initial
Compute Node	MC1			Initial
Management Node	AC1	8034	NC	Initial
Storage Node	MC1			Initial
TAA Compliant Order	AC1	8036	NC	Initial
General Racking Solution	MC1			Initial
No SATA HDD Selected	AC1	8037	NC	Initial
No 2.5t SAS HDD Selected	MC1			Initial
No 3.5t SAS HDD Selected	AC1	8038	NC	Initial
No Pointing Device Selected	MC1			Initial
No Keyboard Selected	AC1	8067	NC	Initial
No Publications Selected	MC1			Initial
RAID 0 - Primary Array (SATA) - minimum of 2 HDDs required	AC1	8072	NC	Initial
RAID 1 - Primary Array (SATA) - 2 HDDs required	MC1			Initial
RAID 0 - Primary Array (SAS) - minimum of 2 HDDs required	AC1	8080	NC	Initial
RAID 1 - Primary Array (SAS) - 2 HDDs required	MC1			Initial
RAID 1E - Primary Array (SAS) - minimum of 3 HDDs required	AC1	8081	NC	Initial
RAID 0 - Secondary Array (SAS) - minimum of 2 HDDs required	MC1			Initial
RAID 1 - Secondary Array (SAS) - 2 HDDs required	AC1	8082	NC	Initial
System Documentation and Software-US English	MC1			Initial
IBM Preferred Pro Keyboard -	AC1	8084	NC	Initial
		8750	29	Initial

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

The following are newly announced features on the specified models of the IBM System x 4365 machine type:

Initial/

Description	Model number	Feature number	Purchase price	MES/ Both/ Support	CSU
IBM System x3250	AC1		\$ 0		Yes
IBM System x3250	MC1		0		Yes
System Packaging -- US	AC1	0792	NC	Initial	
	MC1			Initial	
CPU Retention Module	AC1	0922	NC	Initial	
	MC1			Initial	
x3250 Revision 1 System Planar	AC1	1128	NC	Initial	
	MC1			Initial	
x3250 Revision 2 System Planar	AC1	1129	NC	Initial	
	MC1			Initial	
Dual Core Intel Xeon 3040 (1.87 GHz / 2 MB L2)	AC1	1271	415	Initial	
	MC1			Initial	
Dual Core Intel Xeon 3050 (2.13 GHz / 2 MB L2)	AC1	1272	499	Initial	
	MC1			Initial	
Dual Core Intel Xeon 3060 (2.4GHz / 4MB L2)	AC1	1273	659	Initial	
	MC1			Initial	
Intel Celeron D Processor 341 (2.93 GHz/533 MHz, 256 KB L2)	AC1	1274	79	Initial	
	MC1			Initial	
Dual Core Intel Pentium D 945 (3.4 GHz / 2x2 MB L2)	AC1	1302	425	Initial	
	MC1			Initial	
NetXtreme 1000 Express G Ethernet Adapter	AC1	1486	169	Initial	
	MC1			Initial	
Remote Supervisor Adapter II Slimline	AC1	1607	385	Initial	
	MC1			Initial	
IBM SAS HBA Controller	AC1	1681	329	Initial	
	MC1			Initial	
Capacity Scheduling Service	AC1	1772	NC	Initial	
	MC1			Initial	
Custom SLA Scheduling Service	AC1	1796	NC	Initial	
	MC1			Initial	
512 MB DDR2 667 SDRAM DIMM Memory	AC1	1902	99	Initial	
	MC1			Initial	
1 GB DDR2 667 SDRAM DIMM Memory	AC1	1903	279	Initial	
	MC1			Initial	
2 GB DDR2 667 SDRAM DIMM Memory	AC1	1904	1,599	Initial	
	MC1			Initial	
BIOS GBM	AC1	2007	NC	Initial	
	MC1			Initial	
Front Bezel	AC1	2046	NC	Initial	
	MC1			Initial	
2.5t DASD cage	AC1	2087	NC	Initial	
	MC1			Initial	
3.5t DASD cage	AC1	2088	NC	Initial	
	MC1			Initial	
SAS FILLER 3.5t	AC1	2089	NC	Initial	
	MC1			Initial	
SAS FILLER 2.5t	AC1	2090	NC	Initial	
	MC1			Initial	
SATA FILLER 3.5t	AC1	2091	NC	Initial	
	MC1			Initial	
Custom Asset Tagging -- Standard	AC1	2200	10	Initial	
	MC1			Initial	
Custom Asset Tagging -- Standard	AC1	2201	20	Initial	
	MC1			Initial	
Server Custom Image	AC1	2204	35	Initial	
	MC1			Initial	
Custom Software/Firmware Setting -- Standard	AC1	2208	10	Initial	
	MC1			Initial	
Custom Software/Firmware Setting -- Enhanced	AC1	2209	20	Initial	
	MC1			Initial	
Custom RAID Configuration	AC1	2212	250	Initial	
	MC1			Initial	
Custom Labeling	AC1	2220	5	Initial	
	MC1			Initial	
Custom Palletization	AC1	2221	5	Initial	
	MC1			Initial	
Request for a new Vendor	AC1	2247	NC	Initial	

Logo Hardware	MC1			Initial
Request for an existing IBM Feature	AC1	2248	NC	Initial
Request for an existing Public RPQ	MC1			Initial
Base Hardware	AC1	2249	NC	Initial
	MC1			Initial
RAID Configuration	AC1	2268	739	Initial
	MC1			Initial
Rack Installation of 1U Component	AC1	2302	150	Initial
	MC1			Initial
Department of Defense UID Label	AC1	2305	75	Initial
	MC1			Initial
2U Bracket for IBM SAS HBA Controller, 25R8072	AC1	2320	NC	Initial
Install in Rack 01	MC1			Initial
	AC1	2769	NC	Initial
	MC1			Initial
Install in Rack 02	AC1	3101	NC	Initial
	MC1			Initial
Install in Rack 03	AC1	3102	NC	Initial
	MC1			Initial
Install in Rack 04	AC1	3103	NC	Initial
	MC1			Initial
Install in Rack 05	AC1	3104	NC	Initial
	MC1			Initial
Install in Rack 06	AC1	3105	NC	Initial
	MC1			Initial
Install in Rack 07	AC1	3106	NC	Initial
	MC1			Initial
Install in Rack 08	AC1	3107	NC	Initial
	MC1			Initial
Install in Rack 09	AC1	3108	NC	Initial
	MC1			Initial
Install in Rack 10	AC1	3109	NC	Initial
	MC1			Initial
Install in Rack 11	AC1	3110	NC	Initial
	MC1			Initial
Install in Rack 12	AC1	3111	NC	Initial
	MC1			Initial
Install in Rack 13	AC1	3112	NC	Initial
	MC1			Initial
Install in Rack 14	AC1	3113	NC	Initial
	MC1			Initial
Install in Rack 15	AC1	3114	NC	Initial
	MC1			Initial
Install in Rack 16	AC1	3115	NC	Initial
	MC1			Initial
Install in Rack 17	AC1	3116	NC	Initial
	MC1			Initial
Install in Rack 18	AC1	3117	NC	Initial
	MC1			Initial
Install in Rack 19	AC1	3118	NC	Initial
	MC1			Initial
Install in Rack 20	AC1	3119	NC	Initial
	MC1			Initial
Install in Rack 21	AC1	3120	NC	Initial
	MC1			Initial
Install in Rack 22	AC1	3121	NC	Initial
	MC1			Initial
Install in Rack 23	AC1	3122	NC	Initial
	MC1			Initial
Install in Rack 24	AC1	3123	NC	Initial
	MC1			Initial
Install in Rack 25	AC1	3124	NC	Initial
	MC1			Initial
Install in Rack 26	AC1	3125	NC	Initial
	MC1			Initial
Install in Rack 27	AC1	3126	NC	Initial
	MC1			Initial
Install in Rack 28	AC1	3127	NC	Initial
	MC1			Initial
Install in Rack 29	AC1	3128	NC	Initial
	MC1			Initial
	AC1	3129	NC	Initial

Install in Rack 30	MC1			Initial
	AC1	3130	NC	Initial
	MC1			Initial
Install in Rack 31	AC1	3131	NC	Initial
	MC1			Initial
Install in Rack 32	AC1	3132	NC	Initial
	MC1			Initial
Install in Rack 33	AC1	3133	NC	Initial
	MC1			Initial
Install in Rack 34	AC1	3134	NC	Initial
	MC1			Initial
Install in Rack 35	AC1	3135	NC	Initial
	MC1			Initial
Install in Rack 36	AC1	3136	NC	Initial
	MC1			Initial
Install in Rack 37	AC1	3137	NC	Initial
	MC1			Initial
Install in Rack 38	AC1	3138	NC	Initial
	MC1			Initial
Install in Rack 39	AC1	3139	NC	Initial
	MC1			Initial
Install in Rack 40	AC1	3140	NC	Initial
	MC1			Initial
Install in Rack 41	AC1	3141	NC	Initial
	MC1			Initial
Install in Rack 42	AC1	3142	NC	Initial
	MC1			Initial
Install in Rack 43	AC1	3143	NC	Initial
	MC1			Initial
Install in Rack 44	AC1	3144	NC	Initial
	MC1			Initial
Install in Rack 45	AC1	3145	NC	Initial
	MC1			Initial
Install in Rack 46	AC1	3146	NC	Initial
	MC1			Initial
Install in Rack 47	AC1	3147	NC	Initial
	MC1			Initial
Install in Rack 48	AC1	3148	NC	Initial
	MC1			Initial
Install in Rack 49	AC1	3149	NC	Initial
	MC1			Initial
Install in Rack 50	AC1	3150	NC	Initial
	MC1			Initial
Install in Rack 51	AC1	3151	NC	Initial
	MC1			Initial
Install in Rack 52	AC1	3152	NC	Initial
	MC1			Initial
Install in Rack 53	AC1	3153	NC	Initial
	MC1			Initial
Install in Rack 54	AC1	3154	NC	Initial
	MC1			Initial
Install in Rack 55	AC1	3155	NC	Initial
	MC1			Initial
Install in Rack 56	AC1	3156	NC	Initial
	MC1			Initial
Install in Rack 57	AC1	3157	NC	Initial
	MC1			Initial
Install in Rack 58	AC1	3158	NC	Initial
	MC1			Initial
Install in Rack 59	AC1	3159	NC	Initial
	MC1			Initial
Install in Rack 60	AC1	3160	NC	Initial
	MC1			Initial
Install in Rack 61	AC1	3161	NC	Initial
	MC1			Initial
Install in Rack 62	AC1	3162	NC	Initial
	MC1			Initial
Install in Rack 63	AC1	3163	NC	Initial
	MC1			Initial
Install in Rack 64	AC1	3164	NC	Initial
	MC1			Initial
Rack location U01	AC1	3201	NC	Initial

Rack location U02	MC1			Initial
	AC1	3202	NC	Initial
	MC1			Initial
Rack location U03	AC1	3203	NC	Initial
	MC1			Initial
Rack location U04	AC1	3204	NC	Initial
	MC1			Initial
Rack location U05	AC1	3205	NC	Initial
	MC1			Initial
Rack location U06	AC1	3206	NC	Initial
	MC1			Initial
Rack location U07	AC1	3207	NC	Initial
	MC1			Initial
Rack location U08	AC1	3208	NC	Initial
	MC1			Initial
Rack location U09	AC1	3209	NC	Initial
	MC1			Initial
Rack location U10	AC1	3210	NC	Initial
	MC1			Initial
Rack location U11	AC1	3211	NC	Initial
	MC1			Initial
Rack location U12	AC1	3212	NC	Initial
	MC1			Initial
Rack location U13	AC1	3213	NC	Initial
	MC1			Initial
Rack location U14	AC1	3214	NC	Initial
	MC1			Initial
Rack location U15	AC1	3215	NC	Initial
	MC1			Initial
Rack location U16	AC1	3216	NC	Initial
	MC1			Initial
Rack location U17	AC1	3217	NC	Initial
	MC1			Initial
Rack location U18	AC1	3218	NC	Initial
	MC1			Initial
Rack location U19	AC1	3219	NC	Initial
	MC1			Initial
Rack location U20	AC1	3220	NC	Initial
	MC1			Initial
Rack location U21	AC1	3221	NC	Initial
	MC1			Initial
Rack location U22	AC1	3222	NC	Initial
	MC1			Initial
Rack location U23	AC1	3223	NC	Initial
	MC1			Initial
Rack location U24	AC1	3224	NC	Initial
	MC1			Initial
Rack location U25	AC1	3225	NC	Initial
	MC1			Initial
Rack location U26	AC1	3226	NC	Initial
	MC1			Initial
Rack location U27	AC1	3227	NC	Initial
	MC1			Initial
Rack location U28	AC1	3228	NC	Initial
	MC1			Initial
Rack location U29	AC1	3229	NC	Initial
	MC1			Initial
Rack location U30	AC1	3230	NC	Initial
	MC1			Initial
Rack location U31	AC1	3231	NC	Initial
	MC1			Initial
Rack location U32	AC1	3232	NC	Initial
	MC1			Initial
Rack location U33	AC1	3233	NC	Initial
	MC1			Initial
Rack location U34	AC1	3234	NC	Initial
	MC1			Initial
Rack location U35	AC1	3235	NC	Initial
	MC1			Initial
Rack location U36	AC1	3236	NC	Initial
	MC1			Initial
Rack location U37	AC1	3237	NC	Initial

	MC1			Initial
Rack location U38	AC1	3238	NC	Initial
	MC1			Initial
Rack location U39	AC1	3239	NC	Initial
	MC1			Initial
Rack location U40	AC1	3240	NC	Initial
	MC1			Initial
Rack location U41	AC1	3241	NC	Initial
	MC1			Initial
Rack location U42	AC1	3242	NC	Initial
	MC1			Initial
CD-ROM Ultrabay Enhanced Drive	AC1	4141	39	Initial
	MC1			Initial
Multi-Burner Ultrabay Enhanced Drive	AC1	4143	179	Initial
	MC1			Initial
CD-RW/DVD Combo V Ultrabay Enhanced	AC1	4144	159	Initial
	MC1			Initial
Rack Mount Kit	AC1	4256	44	Initial
	MC1			Initial
Hot-Swap SAS Kit 2.5t	AC1	4346	279	Initial
	MC1			Initial
Simple-Swap Kit 3.5t	AC1	4348	19	Initial
	MC1			Initial
Hot-Swap SAS Kit 3.5t	AC1	4349	229	Initial
	MC1			Initial
Pearl Rack 2 Post Mount Kit	AC1	4350	39	Initial
	MC1			Initial
Simple Swap SATA RAID Kit	AC1	4367	149	Initial
	MC1			Initial
Customer Provided and Installed - Red Hat Enterprise Linux 4 ES for AMD64/EM64T	AC1	4714	NC	Initial
Customer Provided and Installed - Microsoft Windows 2000 Server	AC1	4716	NC	Initial
Customer Provided and Installed - Microsoft Windows 2000 Advanced Server	AC1	4729	NC	Initial
Customer Provided and Installed - Red Hat Enterprise Linux 4 WS for x86	AC1	4732	NC	Initial
Customer Provided and Installed - Microsoft Windows Server 2003, Enterprise Edition	AC1	4734	NC	Initial
Customer Provided and Installed - Microsoft Windows Server 2003, Standard Edition	AC1	4735	NC	Initial
Customer Provided and Installed - Microsoft Windows Server 2003, Web Edition	AC1	4736	NC	Initial
Customer Provided and Installed - Microsoft Windows Server 2003, Enterprise x64 Edition	AC1	4737	NC	Initial
Customer Provided and Installed - Red Hat Enterprise Linux 3 WS for x86	AC1	4741	NC	Initial
Customer Provided and Installed - Red Hat Enterprise Linux 4 WS for AMD64/EM64T	AC1	4742	NC	Initial
Customer Provided and Installed - Red Hat Enterprise Linux 4 AS	AC1	4743	NC	Initial

for AMD64/EM64T					
Customer Provided and Installed - SUSE LINUX Enterprise Server 9 for x86	AC1	4744	NC	Initial	
Customer Provided and Installed - Red Hat Enterprise Linux 4 ES for x86	AC1	4745	NC	Initial	
Customer Provided and Installed - Red Hat Enterprise Linux 4 AS for x86	AC1	4746	NC	Initial	
Customer Provided and Installed - SUSE LINUX Enterprise Server 9 for AMD64/EM64T	AC1	4747	NC	Initial	
Customer Provided and Installed - Microsoft Windows Server 2003, Standard x64 Edition	AC1	4748	NC	Initial	
Customer Provided and Installed - NetWare 6.5	AC1	4749	NC	Initial	
Customer Provided and Installed - Microsoft Windows Small Business Server 2003	AC1	4758	NC	Initial	
Customer Provided and Installed - Red Hat Enterprise Linux 3 AS for x86	AC1	4759	NC	Initial	
Customer Provided and Installed - Red Hat Enterprise Linux 3 ES for x86	AC1	4763	NC	Initial	
160 GB 7200 rpm Hot-Swap SATA HDD	AC1 MC1	5150	139	Initial Initial	
250 GB 7200 rpm Hot-Swap SATA HDD	AC1 MC1	5151	239	Initial Initial	
300 GB 10K 3.5+ Hot-Swap SAS HDD	AC1 MC1	5156	649	Initial Initial	
36 GB 10K 2.5+ Hot-Swap SAS HDD	AC1 MC1	5158	279	Initial Initial	
73 GB 10K 2.5+ Hot-Swap SAS HDD	AC1 MC1	5159	349	Initial Initial	
36 GB 15K 3.5+ Hot-Swap SAS HDD	AC1 MC1	5160	249	Initial Initial	
73 GB 15K 3.5+ Hot-Swap SAS HDD	AC1 MC1	5161	379	Initial Initial	
146 GB 15K 3.5+ Hot-Swap SAS HDD	AC1 MC1	5162	599	Initial Initial	
73 GB 10K 3.5+ Hot-Swap SAS HDD	AC1 MC1	5163	299	Initial Initial	
146 GB 10K 3.5+ Hot-Swap SAS HDD	AC1 MC1	5164	369	Initial Initial	
500 GB 7200 rpm 3.5+ Hot-Swap SATA HDD	AC1 MC1	5196	699	Initial Initial	
500 GB 7200 rpm 3.5+ Simple-Swap SATA HDD	AC1 MC1	5288	699	Initial Initial	
80 GB 7200 rpm 3.5+ Simple-Swap SATA HDD	AC1 MC1	5290	99	Initial Initial	
160 GB 7200 rpm 3.5+ Simple-Swap SATA HDD	AC1 MC1	5291	149	Initial Initial	
250 GB 7200 rpm 3.5+ Simple-Swap SATA HDD	AC1 MC1	5292	259	Initial Initial	
80 GB 7200 rpm Hot-Swap SATA HDD	AC1 MC1	5299	99	Initial Initial	
1.5m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable	AC1 MC1	6201	0	Initial Initial	
Rack power cable - 2.8m, 10A/100-250V, C13 to IEC	AC1	6204	0	Initial	

320-C20 (WW)	MC1			Initial
Line cord - 4.3M, 10A/125V, C13 to NEMA 5-15P (US)	AC1 MC1	6207	0	Initial Initial
Rack power cable - 2.8m, 100-240V, C13 to IEC	AC1 MC1	6311	0	Initial Initial
320-C14 (WW)				
Line cord - 2.8m, 100-120V, C13 to NEMA 5-15P (US)	AC1 MC1	6313	0	Initial Initial
Rack power cable - 2.0m, 125-250V, C13 to IEC	AC1 MC1	6316	0	Initial Initial
320-C14 (WW)				
Line cord - 1.8m, 10A/250V, C13 to NEMA 6-15P (US)	AC1 MC1	6351	0	Initial Initial
1.8m, 10A/120V, C13 to NEMA 5-15P (US) Line Cord	AC1 MC1	6369	0	Initial Initial
Line cord - 2.8m, 10A/250V, C13 to NEMA 6-15P (US)	AC1 MC1	6372	0	Initial Initial
No HDD Selected	AC1 MC1	8026	NC	Initial Initial
Consolidate Shipment	AC1 MC1	8031	NC	Initial Initial
e1350 Solution Component	AC1 MC1	8034	NC	Initial Initial
Compute Node	AC1 MC1	8036	NC	Initial Initial
Management Node	AC1 MC1	8037	NC	Initial Initial
Storage Node	AC1 MC1	8038	NC	Initial Initial
TAA Compliant Order	AC1 MC1	8067	NC	Initial Initial
General Racking Solution	AC1 MC1	8072	NC	Initial Initial
No SATA HDD Selected	AC1 MC1	8080	NC	Initial Initial
No 2.5t SAS HDD Selected	AC1 MC1	8081	NC	Initial Initial
No 3.5t SAS HDD Selected	AC1 MC1	8082	NC	Initial Initial
No Pointing Device Selected	AC1 MC1	8084	NC	Initial Initial
No Keyboard Selected	AC1 MC1	8085	NC	Initial Initial
No Publications Selected	AC1 MC1	8086	NC	Initial Initial
RAID 0 - Primary Array (SATA) - minimum of 2 HDDs required	AC1 MC1	8135	0	Initial Initial
RAID 1 - Primary Array (SATA) - 2 HDDs required	AC1 MC1	8136	0	Initial Initial
RAID 0 - Primary Array (SAS) - minimum of 2 HDDs required	AC1 MC1	8141	0	Initial Initial
RAID 1 - Primary Array (SAS) - 2 HDDs required	AC1 MC1	8142	0	Initial Initial
RAID 1E - Primary Array (SAS) - minimum of 3 HDDs required	AC1 MC1	8143	NC	Initial Initial
RAID 0 - Secondary Array (SAS) - minimum of 2 HDDs required	AC1 MC1	8144	0	Initial Initial
RAID 1 - Secondary Array (SAS) - 2 HDDs required	AC1 MC1	8145	0	Initial Initial
System Documentation and Software-US English	AC1 MC1	8438	NC	Initial Initial
IBM Preferred Pro Keyboard - USB - US English	AC1 MC1	8750	29	Initial Initial
IBM 2-Button Optical Wheel Mouse - Black - USB	AC1 MC1	8912	19	Initial Initial
IBM 3-Button Optical Mouse - Black - USB	AC1 MC1	8913	19	Initial Initial
Integrate in manufacturing	AC1	8971	NC	Initial

Ship Uninstalled (Safety)	MC1			Initial
	AC1	8972	NC	Initial
	MC1			Initial
Internal RAID - Cabled and Setup	AC1	9010	NC	Initial
	MC1			Initial
Internal RAID - Cabled only, Setup by Customer	AC1	9011	NC	Initial
	MC1			Initial
No Internal RAID	AC1	9012	NC	Initial
	MC1			Initial
Hot Spare	AC1	9013	NC	Initial
	MC1			Initial
Internal RAID - Setup	AC1	9066	NC	Initial
	MC1			Initial
Storage Subsystem ID 01	AC1	9170	NC	Initial
	MC1			Initial
Storage Subsystem ID 02	AC1	9171	NC	Initial
	MC1			Initial
Storage Subsystem ID 03	AC1	9172	NC	Initial
	MC1			Initial
Storage Subsystem ID 04	AC1	9173	NC	Initial
	MC1			Initial
Storage Subsystem ID 05	AC1	9174	NC	Initial
	MC1			Initial
Storage Subsystem ID 06	AC1	9175	NC	Initial
	MC1			Initial
Storage Subsystem ID 07	AC1	9176	NC	Initial
	MC1			Initial
Storage Subsystem ID 08	AC1	9177	NC	Initial
	MC1			Initial
Storage Subsystem ID 09	AC1	9178	NC	Initial
	MC1			Initial
Storage Subsystem ID 10	AC1	9179	NC	Initial
	MC1			Initial
Storage Subsystem ID 11	AC1	9180	NC	Initial
	MC1			Initial
Storage Subsystem ID 12	AC1	9181	NC	Initial
	MC1			Initial
Storage Subsystem ID 13	AC1	9182	NC	Initial
	MC1			Initial
Storage Subsystem ID 14	AC1	9183	NC	Initial
	MC1			Initial
Storage Subsystem ID 15	AC1	9184	NC	Initial
	MC1			Initial
Storage Subsystem ID 16	AC1	9185	NC	Initial
	MC1			Initial
Storage Subsystem ID 17	AC1	9186	NC	Initial
	MC1			Initial
Storage Subsystem ID 18	AC1	9187	NC	Initial
	MC1			Initial
Storage Subsystem ID 19	AC1	9188	NC	Initial
	MC1			Initial
Storage Subsystem ID 20	AC1	9189	NC	Initial
	MC1			Initial
Preload Specify	MC1	9200	NC	Initial
Windows Specify	MC1	9201	NC	Initial
Red Hat Specify	AC1	9202	NC	Initial
SuSE Specify	AC1	9203	NC	Initial
Drop-in-the-Box Specify	AC1	9205	NC	Initial
	MC1			Initial
No Preload Specify	AC1	9206	NC	Initial

Description	SEO number	Purchase price	MES/Both/Support	CSU
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Express models

2.93 GHz	341	256 KB	512 MB	SATA	SS	436412U	\$ 829	Both	Yes
3.40 GHz	945	4 MB	512 MB	SATA	SS	436422U	1,129	Both	Yes
1.87 GHz	3040	2 MB	1024 MB	SATA	SS	436442U	1,279	Both	Yes
1.87 GHz	3040	2 MB	1024 MB	SATA/SAS		436444U	1,579	Both	Yes

2.13 GHz	3050	2 MB	1024 MB	SATA/SAS	436452U	1,629	Both	Yes
2.13 GHz	3050	2 MB	1024 MB	SAS	436454U	1,679	Both	Yes
2.40 GHz	3060	4 MB	1024 MB	SATA/SAS	436462U	1,829	Both	Yes
2.40 GHz	3060	4 MB	1024 MB	SAS	436464U	1,879	Both	Yes
2.93 GHz	341	256 KB	512 MB	SATA SS	43651BU	1,039	Both	Yes
3.40 GHz	945	4 MB	512 MB	SATA SS	43652BU	1,339	Both	Yes
1.87 GHz	3040	2 MB	1024 MB	SATA SS	43654BU	1,489	Both	Yes
1.87 GHz	3040	2 MB	1024 MB	SATA/SAS	43654DU	1,789	Both	Yes
2.13 GHz	3050	2 MB	1024 MB	SATA/SAS	43655BU	1,839	Both	Yes
2.13 GHz	3050	2 MB	1024 MB	SAS	43655DU	1,889	Both	Yes
2.40 GHz	3060	4 MB	1024 MB	SATA/SAS	43656BU	2,039	Both	Yes
2.40 GHz	3060	4 MB	1024 MB	SAS	43656DU	2,089	Both	Yes

Note: 4364 24x-10x drive, 4365 Combination drive

Option SEOs

Simple swap SATA RAID Kit	42C1313	\$ 149	Both	Yes
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System x3250 (model 4364)

ServicePac for Warranty and Maintenance Charges

Description	SEO ServicePac part number
1-year 9 x 5 NBD IOR + next-business-day response	69P9398
1-year 9 x 5 x 4 IOR + 4 hour average response	69P9399
1-year 24 x 7 x 4 IOR + 4-hour average response	69P9400
1-year 24 x 7 x 2 IOR + 2-hour average response	69P9401
2-year 9 x 5 NBD IOR + next-business-day response	96P2117
2-year 9 x 5 x 4 IOR + 4 hour average response	96P2118
2-year 24 x 7 x 4 IOR + 4-hour average response	96P2119
2-year 24 x 7 x 2 IOR + 2-hour average response	96P2120
3-year 9 x5 NBD IOR + next-business-day response	69P9505
3-year 9 x 5 x 4 IOR + 4 hour average response	69P9506
3-year 24 x 7 x 4 IOR + 4-hour average response	69P9507
3-year 24 x 7 x 2 IOR + 2-hour average response	69P9508

These ServicePac offerings are valid for models announced in the United States.

Maintenance service charges (Legacy/ICA)

Alternative service (Warranty service upgrades)

IOR
24 x 7
\$160

Annual maintenance service

IOR 9 x 5	IOR 24 x 7
\$380	\$570

System x3250 (model 4365)

ServicePac for warranty and maintenance charges

Description	SEO ServicePac part number
1-year MA IOR 24 x 7 2-hour average response	69P9401
1-year MA IOR 24 x 7 4-hour average response	69P9400
1-year MA IOR 9 x 5 4-hour average response	69P9399
1-year MA IOR 9 x 5 NBD response	69P9398
2-year MA IOR 24 x 7 2-hour average response	96P2120
2-year MA IOR 24 x 7 4-hour average response	96P2119
2-year MA IOR 9 x 5 4-hour average response	96P2118
2-year MA IOR 9 x 5 NBD response	96P2117
3-year IOR 24 x 7 2-hour average response	40M7081
4-year IOR 24 x 7 2-hour average response	40M7085
5-year IOR 24 x 7 2-hour average response	40M7089
3-year IOR 24 x 7	40M7080

4-hour average response 4-year IOR 24 x 7	40M4084
4-hour average response 5-year IOR 24 x 7	40M7088
4-hour average response 3-year IOR 9 x 5	40M7079
4-hour average response 4-year IOR 9 x 5	40M7083
4-hour average response 5-year IOR 9 x 5	40M7087
4-hour average response 4-year IOR 9 x 5	40M7082
NBD response 5-year IOR 9 x 5	40M7086
NBD response	

Maintenance service charges (Legacy)(IOR)

Alternative service (Warranty service upgrades)

IOR
24 x 7
\$219

Maintenance service

IOR 9 x 5	IOR 24 x 7
\$380	\$570

For ServiceElect (ESA) Maintenance Service Charges, contact IBM Global Services at 888-IBM-4343 (426-4343).

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