

IBM System x3200 M3 tower server with latest Intel quad-core processors designed for distributed enterprises, retail stores, or small-to-medium-sized businesses

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At a glance



Features of the System x3200 M3 server include:

- The latest Intel® Xeon® 3400 series processors
- Standard system DDR-3 ECC memory including 1 GB, 2 GB, and 4 GB UDIMMs and 1 GB, 2 GB, 4 GB, and 8 GB RDIMMs¹
- Integrated Serial-ATA (SATA) and Serial Attached SCSI (SAS) controllers, depending on model
- Tower to Rack mount kit support through a rack conversion kit option (model dependant, rack mount kit does not support 11 bays)
- Five available I/O expansion slots (plus dedicated PCI-E slot for the RAID controller)
- Hardware-based RAID striping (RAID-0) and mirroring (RAID-1) standard without consuming an I/O expansion slot, standard for Hot Swap models, optional for Simple Swap models. Optional hardware RAID-5, depending on model
- Optional Hardware Key for remote presence
- Up to eleven total bays (special bid only): two 5.25-inch, one 3.5-inch for optional diskette drive, and four 3.5-inch or up to eight 2.5-inch for HDDs (special bid)²
- SATA DVD-ROM
- One fixed 401 W (high efficiency redundant 430 W model dependant or via CTO)
- System management support

- I/O ports:
 - Seven USB (four rear, two front, one internal)
 - Support for Dual Gigabit Ethernet for greater bandwidth and redundancy; one Gigabit shared to system management
 - One software-compatible serial port
- Integrated Matrox graphics controller with 128 MB video memory

For ordering, contact your IBM® representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: SE001).

Overview

The IBM System x3200 M3 offers enhanced features and performance to help you take on the dynamic challenges of running IT with an emphasis on security, simplicity, efficiency and reliability -- delivered at the right price in a single-socket tower.

Value and performance

- Powerful Intel processor:
 - Xeon X3400 Series
 - Optimized for EM64T to support 32-bit or 64-bit applications
- Six expansion slots:
 - Two 32-bit/33 MHz PCI
 - Two PCI-Express x8
 - Two PCI-Express x4 (one dedicated to RAID controller)
- Integrated Gigabit Ethernet controller
- Choice of HDD:
 - 3.5-inch SATA, 3.5-inch SAS
 - 2.5-inch SAS (special bid)
- Seven drive bays standard
- Open bay models supporting simple-swap SATA, hot-swap SATA, or hot-swap SAS HDD
- Fixed 401 W power supply (high efficiency redundant 430 W model dependant or via CTO)

At your control

Manageability and serviceability features help diagnose problems quickly.

- Integrated Management Module (IMM) subsystems with IPMI 2.0 support, Trusted Platform Module (TPM) 1.2 support, and optional Hardware Key for remote presence
- Text console redirect over LAN for monitoring vital system functions
- Energy savings with IBM Systems Director Active Energy Manager™ and optional high-efficiency power supply (model dependant)
- Automatic server restart (ASR) to restart server after operating system failure
- Monitoring of memory, thermal, and 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 M3 servers and other LAN assets

- IBM System x® ToolsCenter and ServerGuide³ utilities to assist loading of many popular network and operating systems
- One- and three-year, customer replaceable unit (CRU) and on-site service⁴, limited warranty⁵; optional warranty service upgrades available

¹ Maximum UDIMM support 16 GB when 4 GB DIMMs are available first quarter, 2010, and maximum RDIMM support 32 GB when 8 GB DIMMs are available first quarter, 2010.

² Eight 2.5-inch hot-swap SAS HDDs (2.5-inch HDD cage will be available through sales configuration tool first quarter, 2010).

³ 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.

⁴ You may be asked certain diagnostic questions before a technician is sent.

⁵ 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.

Feature exchange

None

Key prerequisites

- Monitor
- Keyboard
- Mouse

Planned availability date

October 30, 2009: System x3200 M3 models

Option SEOs:

October 30, 2009: 44T1599 - 4 GB (1x4GB, Dual Rankx8) PC3-10600 CL9 ECC DDR3 1333 MHz LP RDIMM

October 30, 2009: 44T1568 - 1 GB (1x1GB, Single Rankx8) PC3-10600 CL9 ECC DDR3 1333 MHz LP UDIMM

November 16, 2009: 46C7448 - 4 GB (1x4GB, Quad Rankx8) PC3-8500 CL7 ECC DDR3 1066 MHz LP RDIMM

November 16, 2009: 44T1569 - 2 GB (1x2GB, Dual Rankx8) PC3-10600 CL9 ECC DDR3 1333 MHz LP UDIMM

Description

Solid server subsystems

This uniprocessor tower server delivers solid, enhanced performance by utilizing the latest Intel Xeon quad-core processors at up to 3.06 GHz/4 MB with DDR-3 ECC 1066/1333 MHz DIMM memory, and SAS or SATA storage subsystems.

The System x3200 M3 server couples these new processors with advanced features to produce a system that is an optimal choice for clients with applications that demand performance today, or for growing businesses that need to accommodate future performance growth.

The System x3200 M3 server uses high-performance advanced chipsets to optimize throughput from the processors to memory and I/O.

Additional features include:

- 1 GB, 2 GB, and 4 GB UDIMMs and 1 GB, 2 GB, 4 GB, and 8 GB RDIMMs
- Up to six slots: two PCI 32-bit/33 MHz, and two PCI-Express x8, one PCI-Express x4, and one PCI-X dedicated for the RAID controller
- Dual Gigabit Ethernet for greater network bandwidth and redundancy (one Gigabit shared to systems management)

Expansion capacity and standard features

The System x3200 M3 server is housed in a 5U tower (optionally rack mountable) that can economically handle expansion. This model features:

- Worldwide voltage-sensing 401 W power supply with auto restart that supports maximum configurations and minimizes operator intervention after a temporary power outage; optional 430 W high efficiency redundant power supply with Active Energy Manager (model dependant or via CTO)
- Three variable fans in each power supply that cools:
 - Power supply
 - Drive bays
 - Microprocessor
 - I/O
- Six DIMM sockets that support:
 - Up to 32 GB of system memory
 - 1 GB, 2 GB, or 4 GB UDIMMs and 1 GB, 2 GB, 4 GB, and 8 GB RDIMMS
 - Mixing memory sizes
- Up to four adapter card slots that support multiple adapters for network, systems management, or data storage
- Additional dedicated PCI-e x4 slot for hardware-based RAID-0,1 adapter
- Seven standard or eleven drive bays (special bid):
 - 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
 - Eight internal 2.5-inch, slim high bays (special bid)
- 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

- Support for 15,000 rpm SAS HDDs
- Integrated Matrox graphics controller with 128 MB video memory

Systems management and control

System x3200 M3 servers comply with the 2000 ATX implementation guidelines. These guidelines offer better control and manageability of a network.

Supported features include:

- Systems Management base on Integrated Management Module (IMM) with IPMI 2.0 support
- 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
- Unified Extensible Firmware Interface (UEFI)
- MAC address on PC box
- Remote Deployment Manager™

The System x3200 M3 server also features IBM Systems 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 help reduce costs by potentially:

- Reducing downtime
- Increasing productivity of IT personnel and end users
- Reducing 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 Systems Director includes a portfolio of integrated server tools that work with the Remote presence Hardware Key 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 System x 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 Predictive Failure Analysis® (PFA) on:
 - Processors
 - Memory
 - HDDs
- Define automated actions, such as:
 - Send an e-mail 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 these 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 M3 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.

- The ServerProven⁶ 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 M3 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.

⁶IBM 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®.

Standard System x3200 M3 configurations

Model	Processor	Cache	Memory	HDD Interface	HDD	Other
7327-C1x	2.4 GHz	8 MB	2 GB	0B/SS/SATA	3.5-in	Open bay
7327-C2x	2.4 GHz	8 MB	2 GB	0B/HS/SATA	3.5-in	Open bay

7327-42x	2.53	GHZ	8	MB	2	GB	OB/HS/SATA	3.5-in	Open bay
7327-54x	2.67	GHZ	8	MB	2	GB	OB/HS/SATA	3.5-in	Open bay
7327-62x	2.8	GHZ	8	MB	2	GB	OB/HS/SATA	3.5-in	Open bay
7328-C1x	2.4	GHZ	8	MB	2	GB	OB/SS/SATA	3.5-in	Open bay
7328-C2x	2.4	GHZ	8	MB	2	GB	OB/HS/SATA	3.5-in	Open bay
7328-42x	2.53	GHZ	8	MB	2	GB	OB/HS/SATA	3.5-in	Open bay
7328-54x	2.67	GHZ	8	MB	2	GB	OB/HS/SATA	3.5-in	Open bay
7328-62x	2.8	GHZ	8	MB	2	GB	OB/HS/SATA	3.5-in	Open bay
7328-E2x	2.67	GHZ	8	MB	2	GB	OB/HS/SATA	3.5-in	Open bay

Note: All models contain a SATA DVD-ROM drive .

Accessibility by people with disabilities

A U.S. Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be requested at

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

Product positioning

The IBM System x3200 M3 offers enhanced features and performance to help you take on the dynamic challenges of running IT with an emphasis on security, simplicity, efficiency, and reliability-delivered at the right price in a single-socket tower system.

The System x3200 M3 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-sensitive small and medium-sized businesses, or for deployment in distributed environments and retail locations.

The System x3200 M3 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.

Product number

The following are newly announced features on the specified models of the IBM xSeries® 7327, 7328 machine types:

Description	MT	Model	Feature
7327-AC1	7327	AC1	
7327-MC1	7327	MC1	
7328-AC1	7328	AC1	
7328-MC1	7328	MC1	
Server RAID M5015 SAS/SATA Controller	7327	AC1 MC1	0093
Server RAID M5015 SAS/SATA Controller	7328	AC1 MC1	
24" SATA Cable	7327	AC1 MC1	0870
24" SATA Cable	7328	AC1 MC1	
5.25 to 3.5 Conversion Kit, no Bezel	7327	AC1 MC1	0895
5.25 to 3.5 Conversion Kit, no Bezel	7328	AC1 MC1	
Bezel Kit	7327	AC1 MC1	0900
Bezel Kit	7328	AC1 MC1	
Universal Adapter Bracket 3.5" to 5.25" - Black	7327	AC1	0918

		MC1	
Universal Adapter Bracket 3.5" to 5.25" - Black	7328	AC1	
		MC1	
EMEA Long Leadtime Configurations	7327	AC1	1763
		MC1	
EMEA Long Leadtime Configurations	7328	AC1	
		MC1	
Hungary CHW plant 9SH	7327	AC1	1764
		MC1	
Hungary CHW plant 9SH	7328	AC1	
		MC1	
Guad CHW plant 9KQ	7327	AC1	1765
		MC1	
Guad CHW plant 9KQ	7328	AC1	
		MC1	
ISTC CHW 9K2	7327	AC1	1766
		MC1	
ISTC CHW 9K2	7328	AC1	
		MC1	
RTP CHW 9NR	7327	AC1	1767
		MC1	
RTP CHW 9NR	7328	AC1	
		MC1	
Offload Manufacturing to Guadalajara HVEC	7327	AC1	1768
		MC1	
Offload Manufacturing to Guadalajara HVEC	7328	AC1	
		MC1	
Offload Manufacturing to RTP HVEC	7327	AC1	1769
		MC1	
Offload Manufacturing to RTP HVEC	7328	AC1	
		MC1	
Offload Manufacturing to ISTC	7327	AC1	1770
		MC1	
Offload Manufacturing to ISTC	7328	AC1	
		MC1	
Routing for AP Foxconn	7327	AC1	1771
		MC1	
Routing for AP Foxconn	7328	AC1	
		MC1	
Capacity Scheduling Service	7327	AC1	1772
		MC1	
Capacity Scheduling Service	7328	AC1	
		MC1	
5U Tower to Rack Conversion Kit	7327	AC1	1777
		MC1	
5U Tower to Rack Conversion Kit	7328	AC1	
		MC1	
Custom SLA Scheduling Service	7327	AC1	1796
		MC1	
Custom SLA Scheduling Service	7328	AC1	
		MC1	
Labels, Common parts	7327	AC1	2114
		MC1	
Labels, Common parts	7328	AC1	
		MC1	
3.5" HDD Rotating Cage	7327	AC1	2116
		MC1	
3.5" HDD Rotating Cage	7328	AC1	
		MC1	
Front Bezel (IBM)	7327	AC1	2117
		MC1	
Front Bezel (IBM)	7328	AC1	
		MC1	
4 x 3.5" Simple Swap Hard Drive Filler	7327	AC1	2118
		MC1	
4 x 3.5" Simple Swap Hard Drive Filler	7328	AC1	
		MC1	
3.5" Hot Swap Hard Drive Filler	7327	AC1	2119
		MC1	
3.5" Hot Swap Hard Drive Filler	7328	AC1	
		MC1	
Custom Asset Tagging - Standard	7327	AC1	2200
		MC1	
Custom Asset Tagging - Standard	7328	AC1	

Custom Asset Tagging - Enhanced	7327	MC1 AC1	2201
Custom Asset Tagging - Enhanced	7328	MC1 AC1	
Custom Image Load - Server	7327	MC1 AC1	2204
Custom Image Load - Server	7328	MC1 AC1	
Custom Media Shipgroup	7327	MC1 AC1	2206
Custom Media Shipgroup	7328	MC1 AC1	
Custom Software/Firmware Setting - Standard	7327	MC1 AC1	2208
Custom Software/Firmware Setting - Standard	7328	MC1 AC1	
Custom Software/Firmware Setting - Enhanced	7327	MC1 AC1	2209
Custom Software/Firmware Setting - Enhanced	7328	MC1 AC1	
Custom RAID Configuration	7327	MC1 AC1	2212
Custom RAID Configuration	7328	MC1 AC1	
Custom Labeling	7327	MC1 AC1	2220
Custom Labeling	7328	MC1 AC1	
Custom Palletization	7327	MC1 AC1	2221
Custom Palletization	7328	MC1 AC1	
Request for a new Vendor Logo Hardware	7327	MC1 AC1	2247
Request for a new Vendor Logo Hardware	7328	MC1 AC1	
Request for an existing IBM Feature	7327	MC1 AC1	2248
Request for an existing IBM Feature	7328	MC1 AC1	
Request for an existing Public RPQ	7327	MC1 AC1	2249
Request for an existing Public RPQ	7328	MC1 AC1	
RAID Configuration	7327	MC1 AC1	2302
RAID Configuration	7328	MC1 AC1	
Rack Installation >1U Component	7327	MC1 AC1	2306
Rack Installation >1U Component	7328	MC1 AC1	
Department of Defense UID Label	7327	MC1 AC1	2320
Department of Defense UID Label	7328	MC1 AC1	
BIOS GBM	7327	MC1 AC1	2493
BIOS GBM	7328	MC1 AC1	
Worldwide Rack System Packaging	7327	MC1 AC1	2549
Worldwide Rack System Packaging	7328	MC1 AC1	
System Packaging - WW	7327	MC1 AC1	2596
System Packaging - WW	7328	MC1 AC1	
PRO/1000 PT Dual Port Server Adapter by Intel	7327	MC1 AC1	2944
PRO/1000 PT Dual Port Server Adapter by Intel	7328	MC1 AC1	
QLogic iSCSI Single Port PCIe HBA for IBM System x	7327	MC1 AC1	2976

QLogic iSCSI Single Port PCIe HBA for IBM System x	7328	MC1 AC1	
QLogic iSCSI Dual Port PCIe HBA for IBM System x	7327	MC1 AC1	2977
QLogic iSCSI Dual Port PCIe HBA for IBM System x	7328	MC1 AC1	
Install in Rack 01	7327	MC1 AC1	3101
Install in Rack 01	7328	MC1 AC1	
Install in Rack 02	7327	MC1 AC1	3102
Install in Rack 02	7328	MC1 AC1	
Install in Rack 03	7327	MC1 AC1	3103
Install in Rack 03	7328	MC1 AC1	
Install in Rack 04	7327	MC1 AC1	3104
Install in Rack 04	7328	MC1 AC1	
Install in Rack 05	7327	MC1 AC1	3105
Install in Rack 05	7328	MC1 AC1	
Install in Rack 06	7327	MC1 AC1	3106
Install in Rack 06	7328	MC1 AC1	
Install in Rack 07	7327	MC1 AC1	3107
Install in Rack 07	7328	MC1 AC1	
Install in Rack 08	7327	MC1 AC1	3108
Install in Rack 08	7328	MC1 AC1	
Install in Rack 09	7327	MC1 AC1	3109
Install in Rack 09	7328	MC1 AC1	
Install in Rack 10	7327	MC1 AC1	3110
Install in Rack 10	7328	MC1 AC1	
Install in Rack 11	7327	MC1 AC1	3111
Install in Rack 11	7328	MC1 AC1	
Install in Rack 12	7327	MC1 AC1	3112
Install in Rack 12	7328	MC1 AC1	
Install in Rack 13	7327	MC1 AC1	3113
Install in Rack 13	7328	MC1 AC1	
Install in Rack 14	7327	MC1 AC1	3114
Install in Rack 14	7328	MC1 AC1	
Install in Rack 15	7327	MC1 AC1	3115
Install in Rack 15	7328	MC1 AC1	
Install in Rack 16	7327	MC1 AC1	3116
Install in Rack 16	7328	MC1 AC1	
Install in Rack 17	7327	MC1 AC1	3117
Install in Rack 17	7328	MC1 AC1	

Install in Rack 18	7327	MC1 AC1	3118
Install in Rack 18	7328	MC1 AC1	
Install in Rack 19	7327	MC1 AC1	3119
Install in Rack 19	7328	MC1 AC1	
Install in Rack 20	7327	MC1 AC1	3120
Install in Rack 20	7328	MC1 AC1	
Install in Rack 21	7327	MC1 AC1	3121
Install in Rack 21	7328	MC1 AC1	
Install in Rack 22	7327	MC1 AC1	3122
Install in Rack 22	7328	MC1 AC1	
Install in Rack 23	7327	MC1 AC1	3123
Install in Rack 23	7328	MC1 AC1	
Install in Rack 24	7327	MC1 AC1	3124
Install in Rack 24	7328	MC1 AC1	
Install in Rack 25	7327	MC1 AC1	3125
Install in Rack 25	7328	MC1 AC1	
Install in Rack 26	7327	MC1 AC1	3126
Install in Rack 26	7328	MC1 AC1	
Install in Rack 27	7327	MC1 AC1	3127
Install in Rack 27	7328	MC1 AC1	
Install in Rack 28	7327	MC1 AC1	3128
Install in Rack 28	7328	MC1 AC1	
Install in Rack 29	7327	MC1 AC1	3129
Install in Rack 29	7328	MC1 AC1	
Install in Rack 30	7327	MC1 AC1	3130
Install in Rack 30	7328	MC1 AC1	
Install in Rack 31	7327	MC1 AC1	3131
Install in Rack 31	7328	MC1 AC1	
Install in Rack 32	7327	MC1 AC1	3132
Install in Rack 32	7328	MC1 AC1	
Install in Rack 33	7327	MC1 AC1	3133
Install in Rack 33	7328	MC1 AC1	
Install in Rack 34	7327	MC1 AC1	3134
Install in Rack 34	7328	MC1 AC1	
Install in Rack 35	7327	MC1 AC1	3135
Install in Rack 35	7328	MC1 AC1	
Install in Rack 36	7327	MC1 AC1	3136

Install in Rack 36	7328	MC1 AC1	
Install in Rack 37	7327	MC1 AC1	3137
Install in Rack 37	7328	MC1 AC1	
Install in Rack 38	7327	MC1 AC1	3138
Install in Rack 38	7328	MC1 AC1	
Install in Rack 39	7327	MC1 AC1	3139
Install in Rack 39	7328	MC1 AC1	
Install in Rack 40	7327	MC1 AC1	3140
Install in Rack 40	7328	MC1 AC1	
Install in Rack 41	7327	MC1 AC1	3141
Install in Rack 41	7328	MC1 AC1	
Install in Rack 42	7327	MC1 AC1	3142
Install in Rack 42	7328	MC1 AC1	
Install in Rack 43	7327	MC1 AC1	3143
Install in Rack 43	7328	MC1 AC1	
Install in Rack 44	7327	MC1 AC1	3144
Install in Rack 44	7328	MC1 AC1	
Install in Rack 45	7327	MC1 AC1	3145
Install in Rack 45	7328	MC1 AC1	
Install in Rack 46	7327	MC1 AC1	3146
Install in Rack 46	7328	MC1 AC1	
Install in Rack 47	7327	MC1 AC1	3147
Install in Rack 47	7328	MC1 AC1	
Install in Rack 48	7327	MC1 AC1	3148
Install in Rack 48	7328	MC1 AC1	
Install in Rack 49	7327	MC1 AC1	3149
Install in Rack 49	7328	MC1 AC1	
Install in Rack 50	7327	MC1 AC1	3150
Install in Rack 50	7328	MC1 AC1	
Install in Rack 51	7327	MC1 AC1	3151
Install in Rack 51	7328	MC1 AC1	
Install in Rack 52	7327	MC1 AC1	3152
Install in Rack 52	7328	MC1 AC1	
Install in Rack 53	7327	MC1 AC1	3153
Install in Rack 53	7328	MC1 AC1	
Install in Rack 54	7327	MC1 AC1	3154
Install in Rack 54	7328	MC1 AC1	

Install in Rack 55	7327	MC1 AC1	3155
Install in Rack 55	7328	MC1 AC1	
Install in Rack 56	7327	MC1 AC1	3156
Install in Rack 56	7328	MC1 AC1	
Install in Rack 57	7327	MC1 AC1	3157
Install in Rack 57	7328	MC1 AC1	
Install in Rack 58	7327	MC1 AC1	3158
Install in Rack 58	7328	MC1 AC1	
Install in Rack 59	7327	MC1 AC1	3159
Install in Rack 59	7328	MC1 AC1	
Install in Rack 60	7327	MC1 AC1	3160
Install in Rack 60	7328	MC1 AC1	
Install in Rack 61	7327	MC1 AC1	3161
Install in Rack 61	7328	MC1 AC1	
Install in Rack 62	7327	MC1 AC1	3162
Install in Rack 62	7328	MC1 AC1	
Install in Rack 63	7327	MC1 AC1	3163
Install in Rack 63	7328	MC1 AC1	
Install in Rack 64	7327	MC1 AC1	3164
Install in Rack 64	7328	MC1 AC1	
Rack location U01	7327	MC1 AC1	3201
Rack location U01	7328	MC1 AC1	
Rack location U02	7327	MC1 AC1	3202
Rack location U02	7328	MC1 AC1	
Rack location U03	7327	MC1 AC1	3203
Rack location U03	7328	MC1 AC1	
Rack location U04	7327	MC1 AC1	3204
Rack location U04	7328	MC1 AC1	
Rack location U05	7327	MC1 AC1	3205
Rack location U05	7328	MC1 AC1	
Rack location U06	7327	MC1 AC1	3206
Rack location U06	7328	MC1 AC1	
Rack location U07	7327	MC1 AC1	3207
Rack location U07	7328	MC1 AC1	
Rack location U08	7327	MC1 AC1	3208
Rack location U08	7328	MC1 AC1	
Rack location U09	7327	MC1 AC1	3209

Rack location U09	7328	MC1 AC1	
Rack location U10	7327	MC1 AC1	3210
Rack location U10	7328	MC1 AC1	
Rack location U11	7327	MC1 AC1	3211
Rack location U11	7328	MC1 AC1	
Rack location U12	7327	MC1 AC1	3212
Rack location U12	7328	MC1 AC1	
Rack location U13	7327	MC1 AC1	3213
Rack location U13	7328	MC1 AC1	
Rack location U14	7327	MC1 AC1	3214
Rack location U14	7328	MC1 AC1	
Rack location U15	7327	MC1 AC1	3215
Rack location U15	7328	MC1 AC1	
Rack location U16	7327	MC1 AC1	3216
Rack location U16	7328	MC1 AC1	
Rack location U17	7327	MC1 AC1	3217
Rack location U17	7328	MC1 AC1	
Rack location U18	7327	MC1 AC1	3218
Rack location U18	7328	MC1 AC1	
Rack location U19	7327	MC1 AC1	3219
Rack location U19	7328	MC1 AC1	
Rack location U20	7327	MC1 AC1	3220
Rack location U20	7328	MC1 AC1	
Rack location U21	7327	MC1 AC1	3221
Rack location U21	7328	MC1 AC1	
Rack location U22	7327	MC1 AC1	3222
Rack location U22	7328	MC1 AC1	
Rack location U23	7327	MC1 AC1	3223
Rack location U23	7328	MC1 AC1	
Rack location U24	7327	MC1 AC1	3224
Rack location U24	7328	MC1 AC1	
Rack location U25	7327	MC1 AC1	3225
Rack location U25	7328	MC1 AC1	
Rack location U26	7327	MC1 AC1	3226
Rack location U26	7328	MC1 AC1	
Rack location U27	7327	MC1 AC1	3227
Rack location U27	7328	MC1 AC1	

Rack location U28	7327	MC1 AC1	3228
Rack location U28	7328	MC1 AC1	
Rack location U29	7327	MC1 AC1	3229
Rack location U29	7328	MC1 AC1	
Rack location U30	7327	MC1 AC1	3230
Rack location U30	7328	MC1 AC1	
Rack location U31	7327	MC1 AC1	3231
Rack location U31	7328	MC1 AC1	
Rack location U32	7327	MC1 AC1	3232
Rack location U32	7328	MC1 AC1	
Rack location U33	7327	MC1 AC1	3233
Rack location U33	7328	MC1 AC1	
Rack location U34	7327	MC1 AC1	3234
Rack location U34	7328	MC1 AC1	
Rack location U35	7327	MC1 AC1	3235
Rack location U35	7328	MC1 AC1	
Rack location U36	7327	MC1 AC1	3236
Rack location U36	7328	MC1 AC1	
Rack location U37	7327	MC1 AC1	3237
Rack location U37	7328	MC1 AC1	
Rack location U38	7327	MC1 AC1	3238
Rack location U38	7328	MC1 AC1	
Rack location U39	7327	MC1 AC1	3239
Rack location U39	7328	MC1 AC1	
Rack location U40	7327	MC1 AC1	3240
Rack location U40	7328	MC1 AC1	
Rack location U41	7327	MC1 AC1	3241
Rack location U41	7328	MC1 AC1	
Rack location U42	7327	MC1 AC1	3242
Rack location U42	7328	MC1 AC1	
ServerRAID-MR10M SAS/SATA Controller	7327	MC1 AC1	3559
ServerRAID-MR10M SAS/SATA Controller	7328	MC1 AC1	
ServerRAID-MR10i SAS/SATA Controller	7327	MC1 AC1	3571
ServerRAID-MR10i SAS/SATA Controller	7328	MC1 AC1	
QLogic 8Gb FC Single-port HBA for IBM System x	7327	MC1 AC1	3578
QLogic 8Gb FC Single-port HBA for IBM System x	7328	MC1 AC1	
QLogic 8Gb FC Dual-port HBA for IBM System x	7327	MC1 AC1	3579

		MC1	
QLogic 8Gb FC Dual-port HBA for IBM System x	7328	AC1	
		MC1	
Emulex 8Gb FC Single-port HBA for IBM System x	7327	AC1	3580
		MC1	
Emulex 8Gb FC Single-port HBA for IBM System x	7328	AC1	
		MC1	
Emulex 8Gb FC Dual-port HBA for IBM System x	7327	AC1	3581
		MC1	
Emulex 8Gb FC Dual-port HBA for IBM System x	7328	AC1	
		MC1	
IBM 3Gb SAS HBA Controller v2	7327	AC1	3583
		MC1	
IBM 3Gb SAS HBA Controller v2	7328	AC1	
		MC1	
ServerRAID-MR10is VAULT SAS/SATA Controller	7327	AC1	3584
		MC1	
ServerRAID-MR10is VAULT SAS/SATA Controller	7328	AC1	
		MC1	
Brocade 8Gb FC Single-port HBA for IBM System x	7327	AC1	3589
		MC1	
Brocade 8Gb FC Single-port HBA for IBM System x	7328	AC1	
		MC1	
Brocade 8Gb FC Dual-port HBA for IBM System x	7327	AC1	3591
		MC1	
Brocade 8Gb FC Dual-port HBA for IBM System x	7328	AC1	
		MC1	
73GB 15K 3.5" SAS Hot-Swap HDD	7327	AC1	3748
		MC1	
73GB 15K 3.5" SAS Hot-Swap HDD	7328	AC1	
		MC1	
146GB 15K 3.5" SAS Hot-Swap HDD	7327	AC1	3749
		MC1	
146GB 15K 3.5" SAS Hot-Swap HDD	7328	AC1	
		MC1	
1.5m KVM Conversion Cable Set	7327	AC1	3755
		MC1	
1.5m KVM Conversion Cable Set	7328	AC1	
		MC1	
250mm KVM Conversion Cable Set	7327	AC1	3772
		MC1	
250mm KVM Conversion Cable Set	7328	AC1	
		MC1	
1GB DDR3-1333 1Rx8 LP RDIMM	7327	AC1	3963
		MC1	
1GB DDR3-1333 1Rx8 LP RDIMM	7328	AC1	
		MC1	
2GB DDR3-1333 2Rx8 LP RDIMM	7327	AC1	3964
		MC1	
2GB DDR3-1333 2Rx8 LP RDIMM	7328	AC1	
		MC1	
3.5" Hot Swap HDD Enabled	7327	AC1	4030
		MC1	
3.5" Hot Swap HDD Enabled	7328	AC1	
		MC1	
Half-High SATA DVD-ROM	7327	AC1	4154
		MC1	
Half-High SATA DVD-ROM	7328	AC1	
		MC1	
Half-High SATA Multi-Burner	7327	AC1	4155
		MC1	
Half-High SATA Multi-Burner	7328	AC1	
		MC1	
Key Lock Assembly	7327	AC1	4214
		MC1	
Key Lock Assembly	7328	AC1	
		MC1	
Hot Swap SAS/SATA 4 x 3.5" kit	7327	AC1	4382
		MC1	
Hot Swap SAS/SATA 4 x 3.5" kit	7328	AC1	
		MC1	
Xeon X3470 2.93GHz/1333MHz-8MB 4C	7327	AC1	4511
		MC1	
Xeon X3470 2.93GHz/1333MHz-8MB 4C	7328	AC1	

Simple Swap SATA Kit	7327	MC1 AC1	4809
Simple Swap SATA Kit	7328	MC1 AC1	
System Documentation and Software-US English	7327	MC1 AC1	5001
System Documentation and Software-US English	7328	MC1 AC1	
250GB 7200 RPM 3.5" Hot-Swap SATA II	7327	MC1 AC1	5151
250GB 7200 RPM 3.5" Hot-Swap SATA II	7328	MC1 AC1	
146GB 15K 3.5" Hot-Swap SAS	7327	MC1 AC1	5162
146GB 15K 3.5" Hot-Swap SAS	7328	MC1 AC1	
500GB 7200 RPM 3.5" Hot-Swap SATA II	7327	MC1 AC1	5196
500GB 7200 RPM 3.5" Hot-Swap SATA II	7328	MC1 AC1	
500GB 7200 RPM 3.5" Simple-Swap SATA II	7327	MC1 AC1	5288
500GB 7200 RPM 3.5" Simple-Swap SATA II	7328	MC1 AC1	
250GB 7200 RPM 3.5" Simple-Swap SATA II	7327	MC1 AC1	5292
250GB 7200 RPM 3.5" Simple-Swap SATA II	7328	MC1 AC1	
IBM DDS Gen 5 SATA Tape Drive	7327	MC1 AC1	5392
IBM DDS Gen 5 SATA Tape Drive	7328	MC1 AC1	
IBM Half High LTO Gen 3 SAS Tape Drive	7327	MC1 AC1	5393
IBM Half High LTO Gen 3 SAS Tape Drive	7328	MC1 AC1	
IBM DDS Generation 6 USB Tape Drive	7327	MC1 AC1	5395
IBM DDS Generation 6 USB Tape Drive	7328	MC1 AC1	
750GB 7200 RPM 3.5" Hot-Swap SATA II	7327	MC1 AC1	5530
750GB 7200 RPM 3.5" Hot-Swap SATA II	7328	MC1 AC1	
750GB 7200 RPM 3.5" Simple-Swap SATA II	7327	MC1 AC1	5531
750GB 7200 RPM 3.5" Simple-Swap SATA II	7328	MC1 AC1	
300GB 15K 3.5" Hot-Swap SAS	7327	MC1 AC1	5532
300GB 15K 3.5" Hot-Swap SAS	7328	MC1 AC1	
IBM Server 1TB 7200 SATA 3.5" Simple Swap HDD	7327	MC1 AC1	5559
IBM Server 1TB 7200 SATA 3.5" Simple Swap HDD	7328	MC1 AC1	
IBM 1TB 7200 SATA 3.5" HS HDD	7327	MC1 AC1	5560
IBM 1TB 7200 SATA 3.5" HS HDD	7328	MC1 AC1	
IBM 450GB 15K SAS 3.5" HS HDD	7327	MC1 AC1	5586
IBM 450GB 15K SAS 3.5" HS HDD	7328	MC1 AC1	
IBM RDX 160GB Cartridge	7327	MC1 AC1	5707
IBM RDX 160GB Cartridge	7328	MC1 AC1	
IBM RDX 320GB Cartridge	7327	MC1 AC1	5708
IBM RDX 320GB Cartridge	7328	MC1 AC1	
IBM RDX 500GB Cartridge	7327	MC1 AC1	5709

		MC1	
IBM RDX 500GB Cartridge	7328	AC1	
		MC1	
IBM RDX Internal USB Dock	7327	AC1	5710
		MC1	
IBM RDX Internal USB Dock	7328	AC1	
		MC1	
ServerRAID M5000 Series Battery Assembly	7327	AC1	5744
		MC1	
ServerRAID M5000 Series Battery Assembly	7328	AC1	
		MC1	
Xeon X3430 2.4GHz/1333MHz-8MB 4C	7327	AC1	5842
		MC1	
Xeon X3430 2.4GHz/1333MHz-8MB 4C	7328	AC1	
		MC1	
Xeon X3440 2.53GHz/1333MHz-8MB 4C	7327	AC1	5844
		MC1	
Xeon X3440 2.53GHz/1333MHz-8MB 4C	7328	AC1	
		MC1	
Xeon X3450 2.67GHz/1333MHz-8MB 4C	7327	AC1	5847
		MC1	
Xeon X3450 2.67GHz/1333MHz-8MB 4C	7328	AC1	
		MC1	
Xeon X3460 2.8GHz/1333MHz-8MB 4C	7327	AC1	5849
		MC1	
Xeon X3460 2.8GHz/1333MHz-8MB 4C	7328	AC1	
		MC1	
ServerRAID-MR10i Li-Ion Battery	7327	AC1	5864
		MC1	
ServerRAID-MR10i Li-Ion Battery	7328	AC1	
		MC1	
IBM Virtual Media Key For Entry Systems	7327	AC1	5891
		MC1	
IBM Virtual Media Key For Entry Systems	7328	AC1	
		MC1	
1.5m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable	7327	AC1	6201
		MC1	
1.5m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable	7328	AC1	
		MC1	
2.8m, 10A/100-250V, C13 to IEC 320-C20 Rack Power Cable	7327	AC1	6204
		MC1	
2.8m, 10A/100-250V, C13 to IEC 320-C20 Rack Power Cable	7328	AC1	
		MC1	
2.8m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable	7327	AC1	6311
		MC1	
2.8m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable	7328	AC1	
		MC1	
2.8m, 10A/120V, C13 to NEMA 5-15P (US) Line Cord	7327	AC1	6313
		MC1	
2.8m, 10A/120V, C13 to NEMA 5-15P (US) Line Cord	7328	AC1	
		MC1	
Rack power cable - 2.0m, 125-250V, C13 to IEC 320-C14 (ww)	7327	AC1	6316
		MC1	
Rack power cable - 2.0m, 125-250V, C13 to IEC 320-C14 (ww)	7328	AC1	
		MC1	
Line cord - 1.8m, 10A/250V, C13 to NEMA 6-15P (US)	7327	AC1	6351
		MC1	
Line cord - 1.8m, 10A/250V, C13 to NEMA 6-15P (US)	7328	AC1	
		MC1	
Line cord - 1.8M, 10A/125V, C13 to NEMA 5-15P (US)	7327	AC1	6369
		MC1	
Line cord - 1.8M, 10A/125V, C13 to NEMA 5-15P (US)	7328	AC1	
		MC1	
Line cord - 4.3M, 10A/125V, C13 to NEMA 5-15P (US)	7327	AC1	6370

		MC1	
Line cord - 4.3M, 10A/125V, C13 to NEMA 5-15P (US)	7328	AC1	
		MC1	
Line cord - 2.8m, 10A/250V, C13 to NEMA 6-15P (US)	7327	AC1	6372
		MC1	
Line cord - 2.8m, 10A/250V, C13 to NEMA 6-15P (US)	7328	AC1	
		MC1	
Line cord - 4.3m, 10A/250V, C13 to NEMA 6-15P (US)	7327	AC1	6373
		MC1	
Line cord - 4.3m, 10A/250V, C13 to NEMA 6-15P (US)	7328	AC1	
		MC1	
Base Hardware with High Efficiency Power Supply	7327	AC1	6945
		MC1	
Base Hardware with High Efficiency Power Supply	7328	AC1	
		MC1	
Base Hardware with Fixed Power Supply	7327	AC1	6946
		MC1	
Base Hardware with Fixed Power Supply	7328	AC1	
		MC1	
Customer Solution Center Services	7327	AC1	7831
		MC1	
Customer Solution Center Services	7328	AC1	
		MC1	
RAID 5 - Primary Array (SATA) - minimum of 3 HDDs required	7327	AC1	7851
		MC1	
RAID 5 - Primary Array (SATA) - minimum of 3 HDDs required	7328	AC1	
		MC1	
RAID 5 - Primary Array (SAS) - minimum of 3 HDDs required	7327	AC1	7853
		MC1	
RAID 5 - Primary Array (SAS) - minimum of 3 HDDs required	7328	AC1	
		MC1	
RAID 6 - Primary Array (SATA) - minimum of 4 HDDs required	7327	AC1	7855
		MC1	
RAID 6 - Primary Array (SATA) - minimum of 4 HDDs required	7328	AC1	
		MC1	
RAID 6 - Primary Array (SAS) - minimum of 4 HDDs required	7327	AC1	7857
		MC1	
RAID 6 - Primary Array (SAS) - minimum of 4 HDDs required	7328	AC1	
		MC1	
e1350 Special Bid Solution Component	7327	AC1	7929
		MC1	
e1350 Special Bid Solution Component	7328	AC1	
		MC1	
No HDD Selected	7327	AC1	8026
		MC1	
No HDD Selected	7328	AC1	
		MC1	
Consolidate Shipment	7327	AC1	8031
		MC1	
Consolidate Shipment	7328	AC1	
		MC1	
e1350 Solution Component	7327	AC1	8034
		MC1	
e1350 Solution Component	7328	AC1	
		MC1	
Compute Node	7327	AC1	8036
		MC1	
Compute Node	7328	AC1	
		MC1	
Management Node	7327	AC1	8037
		MC1	
Management Node	7328	AC1	
		MC1	
Storage Node	7327	AC1	8038
		MC1	
Storage Node	7328	AC1	

TAA Compliant Order	7327	MC1 AC1	8067
TAA Compliant Order	7328	MC1 AC1	
General Racking Solution	7327	MC1 AC1	8072
General Racking Solution	7328	MC1 AC1	
No SATA HDD Selected	7327	MC1 AC1	8080
No SATA HDD Selected	7328	MC1 AC1	
No 2.5" SAS HDD Selected	7327	MC1 AC1	8081
No 2.5" SAS HDD Selected	7328	MC1 AC1	
No 3.5" SAS HDD Selected	7327	MC1 AC1	8082
No 3.5" SAS HDD Selected	7328	MC1 AC1	
No Pointing Device Selected	7327	MC1 AC1	8084
No Pointing Device Selected	7328	MC1 AC1	
No Keyboard Selected	7327	MC1 AC1	8085
No Keyboard Selected	7328	MC1 AC1	
No Publications Selected	7327	MC1 AC1	8086
No Publications Selected	7328	MC1 AC1	
RAID 0 - Primary Array (SATA) - minimum of 2 HDDs required	7327	MC1 AC1	8135
RAID 0 - Primary Array (SATA) - minimum of 2 HDDs required	7328	MC1 AC1	
RAID 1 - Primary Array (SATA) - 2 HDDs required	7327	MC1 AC1	8136
RAID 1 - Primary Array (SATA) - 2 HDDs required	7328	MC1 AC1	
RAID 0 - Secondary Array (SATA) - minimum of 2 HDDs required	7327	MC1 AC1	8138
RAID 0 - Secondary Array (SATA) - minimum of 2 HDDs required	7328	MC1 AC1	
RAID 1 - Secondary Array (SATA) - 2 HDDs required	7327	MC1 AC1	8139
RAID 1 - Secondary Array (SATA) - 2 HDDs required	7328	MC1 AC1	
RAID 0 - Primary Array (SAS) - minimum of 2 HDDs required	7327	MC1 AC1	8141
RAID 0 - Primary Array (SAS) - minimum of 2 HDDs required	7328	MC1 AC1	
RAID 1 - Primary Array (SAS) - 2 HDDs required	7327	MC1 AC1	8142
RAID 1 - Primary Array (SAS) - 2 HDDs required	7328	MC1 AC1	
RAID 0 - Secondary Array (SAS) - minimum of 2 HDDs required	7327	MC1 AC1	8144
RAID 0 - Secondary Array (SAS) - minimum of 2 HDDs required	7328	MC1 AC1	
RAID 1 - Secondary Array (SAS) - 2 HDDs required	7327	MC1 AC1	8145
RAID 1 - Secondary Array (SAS) - 2 HDDs required	7328	MC1 AC1	
		MC1IBM Preferred Pro Keyboard USB - US English 103P	
		MC1	

IBM Preferred Pro Keyboard USB - US English 103P	7328	AC1	
		MC1	IBM 2 Button Optical wheel Mouse - Black - USB
IBM 2 Button Optical wheel Mouse - Black - USB	7328	AC1	
		MC1	
IBM 3 Button Optical Mouse - Black - USB	7327	AC1	8913
		MC1	
IBM 3 Button Optical Mouse - Black - USB	7328	AC1	
		MC1	
Integrate in manufacturing	7327	AC1	8971
		MC1	
Integrate in manufacturing	7328	AC1	
		MC1	
Ship Uninstalled (Safety)	7327	AC1	8972
		MC1	
Ship Uninstalled (Safety)	7328	AC1	
		MC1	
Internal SATA RAID - Cabled and Setup by IBM	7327	AC1	9010
		MC1	
Internal SATA RAID - Cabled and Setup by IBM	7328	AC1	
		MC1	
Internal SATA RAID - Cabled only, Setup by Customer	7327	AC1	9011
		MC1	
Internal SATA RAID - Cabled only, Setup by Customer	7328	AC1	
		MC1	
No Internal RAID	7327	AC1	9012
		MC1	
No Internal RAID	7328	AC1	
		MC1	
Hot Spare	7327	AC1	9013
		MC1	
Hot Spare	7328	AC1	
		MC1	
Internal SAS RAID - Setup by IBM	7327	AC1	9066
		MC1	
Internal SAS RAID - Setup by IBM	7328	AC1	
		MC1	
Internal SAS RAID - Setup by Customer	7327	AC1	9067
		MC1	
Internal SAS RAID - Setup by Customer	7328	AC1	
		MC1	
Storage Subsystem ID 01	7327	AC1	9170
		MC1	
Storage Subsystem ID 01	7328	AC1	
		MC1	
Storage Subsystem ID 02	7327	AC1	9171
		MC1	
Storage Subsystem ID 02	7328	AC1	
		MC1	
Storage Subsystem ID 03	7327	AC1	9172
		MC1	
Storage Subsystem ID 03	7328	AC1	
		MC1	
Storage Subsystem ID 04	7327	AC1	9173
		MC1	
Storage Subsystem ID 04	7328	AC1	
		MC1	
Storage Subsystem ID 05	7327	AC1	9174
		MC1	
Storage Subsystem ID 05	7328	AC1	
		MC1	
Storage Subsystem ID 06	7327	AC1	9175
		MC1	
Storage Subsystem ID 06	7328	AC1	
		MC1	
Storage Subsystem ID 07	7327	AC1	9176
		MC1	
Storage Subsystem ID 07	7328	AC1	
		MC1	
Storage Subsystem ID 08	7327	AC1	9177
		MC1	
Storage Subsystem ID 08	7328	AC1	

Storage Subsystem ID 09	7327	AC1	9178
		MC1	
Storage Subsystem ID 09	7328	AC1	
		MC1	
Storage Subsystem ID 10	7327	AC1	9179
		MC1	
Storage Subsystem ID 10	7328	AC1	
		MC1	
Storage Subsystem ID 11	7327	AC1	9180
		MC1	
Storage Subsystem ID 11	7328	AC1	
		MC1	
Storage Subsystem ID 12	7327	AC1	9181
		MC1	
Storage Subsystem ID 12	7328	AC1	
		MC1	
Storage Subsystem ID 13	7327	AC1	9182
		MC1	
Storage Subsystem ID 13	7328	AC1	
		MC1	
Storage Subsystem ID 14	7327	AC1	9183
		MC1	
Storage Subsystem ID 14	7328	AC1	
		MC1	
Storage Subsystem ID 15	7327	AC1	9184
		MC1	
Storage Subsystem ID 15	7328	AC1	
		MC1	
Storage Subsystem ID 16	7327	AC1	9185
		MC1	
Storage Subsystem ID 16	7328	AC1	
		MC1	
Storage Subsystem ID 17	7327	AC1	9186
		MC1	
Storage Subsystem ID 17	7328	AC1	
		MC1	
Storage Subsystem ID 18	7327	AC1	9187
		MC1	
Storage Subsystem ID 18	7328	AC1	
		MC1	
Storage Subsystem ID 19	7327	AC1	9188
		MC1	
Storage Subsystem ID 19	7328	AC1	
		MC1	
Storage Subsystem ID 20	7327	AC1	9189
		MC1	
Storage Subsystem ID 20	7328	AC1	
		MC1	
Preload Specify	7327	AC1	9200
		MC1	
Preload Specify	7328	AC1	
		MC1	
Windows Specify	7327	MC1	9201
Windows Specify	7328	MC1	
Red Hat Specify	7327	AC1	9202
Red Hat Specify	7328	AC1	
SuSE Specify	7327	AC1	9203
SuSE Specify	7328	AC1	
AIX Specify	7327	AC1	9204
AIX Specify	7328	AC1	
Drop-in-the-Box Specify	7327	AC1	9205
		MC1	
Drop-in-the-Box Specify	7328	AC1	
		MC1	
No Preload Specify	7327	AC1	9206
		MC1	
No Preload Specify	7328	AC1	
		MC1	
Internal split SAS cable	7327	AC1	9265
		MC1	
Internal split SAS cable	7328	AC1	
		MC1	
Internal x3200 M3 USB Cable	7327	AC1	9275

		MC1	
Internal x3200 M3 USB Cable	7328	AC1	
		MC1	
ServerRAID-BR10i1 SAS/SATA Controller v2	7327	AC1	9742
		MC1	
ServerRAID-BR10i1 SAS/SATA Controller v2	7328	AC1	
		MC1	

The following are features already announced for the 7327, 7328, 7836, 7837, 7839 machine type:

Description	MT	Model	Feature
7327-AC1	7327	AC1	
7327-MC1	7327	MC1	
7328-AC1	7328	AC1	
7328-MC1	7328	MC1	
7836-AC1	7836	AC1	
7836-MC1	7836	MC1	
7837-AC1	7837	AC1	
7837-MC1	7837	MC1	
7839-AC1	7839	AC1	
7839-MC1	7839	MC1	
2GB DDR3-1333 2Rx8 LP UDIMM	7327	AC1	1914
		MC1	
2GB DDR3-1333 2Rx8 LP UDIMM	7328	AC1	1914
		MC1	
4GB (1x4GB, Quad Rankx8) PC3-8500 CL7 ECC DDR3 1066MHZ LP RDIMM	7327	AC1	1701
		MC1	
4GB (1x4GB, Quad Rankx8) PC3-8500 CL7 ECC DDR3 1066MHZ LP RDIMM	7328	AC1	1701
		MC1	
4GB (1x4GB, Dual Rankx8) PC3-10600 CL9 ECC DDR3 1333MHZ LP RDIMM	7327	AC1	1713
		MC1	
4GB (1x4GB, Dual Rankx8) PC3-10600 CL9 ECC DDR3 1333MHZ LP RDIMM	7328	AC1	
		MC1	
1GB (1x1GB, Single Rankx8) PC3-10600 CL9 ECC DDR3 1333MHZ LP UDIMM	7327	AC1	1915
		MC1	
1GB (1x1GB, Single Rankx8) PC3-10600 CL9 ECC DDR3 1333MHZ LP UDIMM	7328	AC1	
		MC1	
1GB (1x1GB, Single Rankx8) PC3-10600 CL9 ECC DDR3 1333MHZ LP UDIMM	7836	AC1	
		MC1	
1GB (1x1GB, Single Rankx8) PC3-10600 CL9 ECC DDR3 1333MHZ LP UDIMM	7837	AC1	
		MC1	
1GB (1x1GB, Single Rankx8) PC3-10600 CL9 ECC DDR3 1333MHZ LP UDIMM	7839	AC1	
		MC1	

The following feature numbers are automatically added to the 5372-SWX HIPO order whenever one of the hardware system units are configured in an order.

HIPO Feature Number	Description
4186	7327-AC1 Routing Code
4187	7327-MC1 Routing Code
4188	7328-AC1 Routing Code
4189	7328-MC1 Routing Code

The Single Entity Offerings (SEO) for 7327

Description	SEO Number
System x3200 M3	7327C1U 7327C2U 732742U 732754U 732762U

The Single Entity Offerings (SEO) for 7328

Description	SEO Number
System x3200 M3	7328C1U 7328C2U 732842U 732854U 732862U

Options SEOs

Description	SEO Number
4GB (1x4GB, Dual Rankx8) PC3-10600 CL9 ECC DDR3 1333MHZ LP RDIMM	44T1599
1GB (1x1GB, Single Rankx8) PC3-10600 CL9 ECC DDR3 1333MHZ LP UDIMM	44T1568
4GB (1x4GB, Quad Rankx8) PC3- 8500 CL7 ECC DDR3 1066MHZ LP RDIMM	46C7448
2GB (1x2GB, Dual Rankx8) PC3-10600 CL9 ECC DDR3 1333MHZ LP UDIMM	44T1569

Express models

Description	Machine	Models	SEO number
System x3200 M3	7328	E2U	7328E2U
Note: The following CTO model should not be included in any announcement material:			

Description	Machine	Models	Part number
System x3200 M3	7327	CTO	7327CTO
System x3200 M3	7328	CTO	7328CTO

Business Partner information

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

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=109-594>

Publications

The following publications and CD-ROMs are shipped with the System x3200 M3 server:

- *System x3200 M3 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 M3 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 M3 Installation Guide* and *Problem Determination and Service Guide*, in U.S. English versions, are available from

<http://www-304.ibm.com/jct01004c/systems/support/>

Select servers, then server family, and then click on publications.

Services

Global Technology Services

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

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

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

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

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

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

For details on education offerings related to specific products, visit

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

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

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**

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**

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

For more information, visit

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

Technical information

Specified operating environment

Physical specifications

7327-C1x	7327-C2x	7328-C1x	7328-C2x
Processor	Xeon X3430	Xeon X3430	Xeon X3430
Internal speed	2.4 GHZ	2.4 GHZ	2.4 GHZ
External speed	1333 MHZ	1333 MHZ	1333 MHZ
Number standard	1	1	1
Maximum	1	1	1
L3 cache (full-speed)	8 MB	8 MB	8 MB
Memory	2048 MB	2048 MB	2048 MB
DIMMs	2 x 1024 MB	2 x 1024 MB	2 x 1024 MB
DIMM sockets	6	6	6
Capacity	24 GB	24 GB	24 GB
Video controller	Matrox G200ev	Matrox G200ev	Matrox G200ev
Memory	128 MB	128 MB	128 MB
HDD	SS SATA	HS SATA	HS SATA
HDD controllers	SATA	SAS/SATA	SAS/SATA
Channels	1	4	4
Connector int.	6	1	1
Connector ext.	0	0	0
Fixed disk standard	0	0	0
Tape backup	0	0	0
Total bays	7	7	7
5.25/3.5-in half-high	2	2	2
3.5-in slim	5	5	5
2.5-in slim	0	0	0
Hot-swap	0	4	4
Internal capacity	4 TB	4 TB	4 TB
Bays available	6	6	6
5.25/3.5-in half-high	1	1	1
3.5-in slim	5	5	5
2.5-in slim	0	0	0
Hot-swap	0	4	4
Total slots	4	4	4
PCI 2.2 (32/33 MHz)	2	2	2

PCI-E (x8/x4/x1)	3	3
Slots available	5	5
Management proc.	Optional	Optional
Ethernet controller	1 Gb	1 Gb
Optical drive (SATA)	DVD-ROM	DVD-ROM
Diskette drive	0	0
Power supply	401 W	401 W
Number standard	1	1
Hot-swap	No	No
Redundant power	No	No
Auto restart	Yes	Yes
7327-42x	7327-54x	7328-54x
	7328-42x	

Processor	Xeon X3440	Xeon X3450
Internal speed	2.53 GHz	2.67GHz
External speed	1333 MHz	1333 MHz
Number standard	1	1
Maximum	1	1
L3 cache (full-speed)	8 MB	8 MB
Memory	2048 MB	2048 MB
DIMMS	2 x 1024 MB	2 x 1024 MB
DIMM sockets	6	6
Capacity	24 GB	24 GB
Video controller	Matrox G200ev	Matrox G200ev
Memory	128 MB	128 MB
HDD	HS SATA	HS SATA
HDD controllers	SAS/SATA	SAS/SATA
Channels	4	4
Connector int.	1	1
Connector ext.	0	0
Fixed disk standard	0	0
Tape backup	0	0
Total bays	7	7
5.25/3.5-in half-high	2	2
3.5-in slim	5	5
2.5-in slim	0	0
Hot-swap	4	4
Internal capacity	4.0 TB	4.0 TB
Bays available	6	6
5.25/3.5-in half-high	1	1
3.5-in slim	5	5
2.5-in slim	0	0
Hot-swap	4	4
Total slots	5	5
PCI 2.2 (32/33 MHz)	2	2
PCI-E (x8/x4/x1)	3	3
Slots available	5	5
Management proc.	Optional	Optional
Ethernet controller	1 Gb	1 Gb
Optical drive (SATA)	DVD-ROM	DVD-ROM
Diskette drive	0	0
Power supply	401 W	430 W
Number standard	1	2
Hot-swap	No	Yes
Redundant power	No	Yes
Auto restart	Yes	Yes

7327-62x

7328-62x

Processor	Xeon X3460
Internal speed	2.8 GHz
External speed	1333 MHz
Number standard	1
Maximum	1
L3 cache (full-speed)	8 MB
Memory	2048 MB ECC
DIMMs	2 x 1024 MB
DIMM sockets	6
Capacity	24 GB
Video controller	Matrox G200ev
Memory	128 MB
HDD	HS SATA
HDD controllers	SAS/SATA
Channels	4
Connector int.	1
Connector ext.	0
Fixed disk standard	0
Tape backup	0
Total bays	7
5.25/3.5-in half-high	2
3.5-in slim	5
2.5-in slim	0
Hot-swap	4
Internal capacity	4.0 TB
Bays available	6
5.25/3.5-in half-high	1
3.5-in slim	1
Hot-swap	4
Total slots	4
PCI 2.2 (32/33 MHz)	2
PCI-E (x8/x4/x1)	3
Slots available	5
Management proc.	Optional
Ethernet controller	1 Gb
Optical drive (SATA)	DVD-ROM
Diskette drive	0
Power supply	401 w
Number standard	1
Hot-swap	No
Redundant power	No
Auto restart	Yes

Note: Capacities are based on installation of 750 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/>

Video subsystem

- Integrated on planar and connected to the PCI-e bus
- Support for DDR2 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 (32- and 64-bit) and Linux® (all distributions)

Resolution	Vertical Refresh Rate	Color Depth
1600 x 1200	60, 65, 70, 75, 85	8, 16
1440 x 1050	60, 75, 85	8, 16 (must be supported in EDID)
1440 x 900	75, 85	8, 16 (must be supported in EDID)
1280 x 900	60	8, 16, 32
1280 x 1024	75, 85	8, 16
1280 x 1024	60	8, 16, 32
1152 x 864	60	8, 16, 32
1024 x 768	60, 70, 75, 85	8, 16, 32
800 x 600	56, 60, 72, 75, 85	8, 16, 32
640 x 400	60, 72, 75, 85	8, 16, 32

Dimensions

- Width: 215.9 mm (8.5 in)
- Depth: 539.75 (21.25 in)
- Height: 438.15 mm (17.25 in)
- 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 in) at the back
- 50 mm (2 in) on each side

The System x3200 M3 is shipped as a floor-standing server. An optional 5U Tower-to-Rack Kit allows rack mounting for seven bay models. This server is supported in a horizontal orientation only with this conversion kit. Eleven bay models are not rack mountable.

Standards

These systems:

- Support or comply with Peripheral Component Interconnect (PCI) specification 2.2.
- Are 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 ICES003, issue 4, Class A
- UL/IEC 60950-1
- CSA C22.2 No. 60950-1-03
- NOM-019
- Argentina IEC60950-1

Note: These servers are certified by the respective UL and NOM agencies.

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 2,133.6 m (7,000 ft)

Server off

- 10.0° to 43.0° C (50° to 109.4° F); maximum altitude: 2,133.6 m (7,000 ft)

Shipping

- -40° to 60° C (-40° to 140° F)
- Relative humidity: 8% to 80%
- Maximum altitude: 2,133.6 m (7,000 ft)

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: 0.058 kVA
 - Maximum configuration: 0.55 kVA
- Btu output:
 - Ship configuration - 188 Btu/hr (55 watts)
 - Full configuration - 1784 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.

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 M3 server:

- Microsoft:
 - Microsoft Windows Server 2003/2003 R2, Enterprise Edition
 - Microsoft Windows Server 2003/2003 R2, Enterprise x64 Edition
 - Microsoft Windows Server 2003/2003 R2, Standard Edition
 - Microsoft Windows Server 2003/2003 R2, Standard x64 Edition
 - Microsoft Windows Server 2003, Web Edition
 - Microsoft Windows Server 2008, Datacenter x86 Edition
 - Microsoft Windows Server 2008, Datacenter x64 Edition
 - Microsoft Windows Server 2008, Enterprise x86 Edition
 - Microsoft Windows Server 2008, Enterprise x64 Edition
 - Microsoft Windows Server 2008, Standard x86 Edition
 - Microsoft Windows Server 2008, Standard x64 Edition
 - Microsoft Windows Server 2008, Web x86 Edition
 - Microsoft Windows Server 2008, Web x64 Edition
 - Windows Small Business Server 2008 Premium Edition
 - Windows Small Business Server 2008 Standard Edition
- Linux:
 - SUSE LINUX Enterprise Server 10 for x866
 - SUSE LINUX Enterprise Server 10 for AMD64/EM64T
 - SUSE LINUX Enterprise Server 10 with Xen for AMD64/EM64T
 - SUSE LINUX Enterprise Server 11 for x86
 - SUSE LINUX Enterprise Server 11 for AMD64/EM64T
 - SUSE LINUX Enterprise Server 11 with Xen for AMD64/EM64T
 - 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/HPC for x86
 - Red Hat Enterprise Linux 4 WS/HPC for AMD64/EM64T
 - Red Hat Enterprise Linux 5 Server Edition
 - Red Hat Enterprise Linux 5 Server x64 Edition
 - Red Hat Enterprise Linux 5 Server with Xen x64 Edition
 - Red Hat Enterprise Linux 5 Server Edition with Xen
- Virtualizer:
 - VMware ESX 4.0
 - VMware ESXi 4.0

The following network operating systems are supported as preloads in the System x3200 M3 server:

- Microsoft:
 - Microsoft Windows Server 2008, Datacenter x86 Edition
 - Microsoft Windows Server 2008, Datacenter x64 Edition
 - Microsoft Windows Server 2008, Enterprise x86 Edition
 - Microsoft Windows Server 2008, Enterprise x64 Edition

- Microsoft Windows Server 2008, Standard x86 Edition
- Microsoft Windows Server 2008, Standard x64 Edition
- Microsoft Windows Server 2008, Web x86 Edition
- Microsoft Windows Server 2008, Web x64 Edition
- Windows Small Business Server 2008 Premium Edition
- Windows Small Business Server 2008 Standard Edition

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 M3 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, or 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.
- Mixed speed SAS HDDs (10,000/15,000 rpm) are not supported on 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.
- 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, a 400 W Interposer Cable is required.

Refer to the [Software requirements](#) section for operating system limitations.

Planning information

Customer responsibilities

Customer setup

The System x3200 M3 server is designated as customer setup. Customer setup instructions are shipped with systems.

Standard SATA configurations

The System x3200 M3 server uses the SATA interface for the optical drive.

Six single-drop SATA cables are used to attach up to four SATA HDDs and two SATA Optical Disk Drives (ODDs).

Standard SAS configurations

System x3200 M3 models use a paddle board with the LSI 1064E controller.

Supported memory options

- 44T1480 1GB 1Rx8 1Gbit PC3-10600R-999, LP RDIMM
- 44T1481 2GB 2Rx8 1Gbit PC3-10600R-999, LP RDIMM
- 46C7448 4GB 4Rx8 1Gbit PC3-8500R-777, LP RDIMM
- 44T1568 1GB 1Rx8 1Gbit PC3-10600E-999, LP UDIMM
- 44T1569 2GB 2Rx8 1Gbit PC3-10600E-999, LP UDIMM
- 44T1599 4GB 2Rx8 2Gbit PC3-10600R-999, LP RDIMM

Rack installations

The System x3200 M3 server can be converted to a rack-mounted unit by installing a 5U x 20-inch Tower-to-Rack Kit. The 5U System x3200 M3 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 in). Also, adequate space (approximately 2.5 cm (2 in) 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 an 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 M3 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
- System unit power cord
- Country kit:
 - Publications/CD bag:
 - System x3200 M3 Installation Guide
 - Documentation CD
 - Diagnostics CD
 - Safety pointer publication
 - Contents information flyer

-- ServerGuide and IBM Director CDs

The System x3200 M3 system is shipped as a single package. The country kit is contained inside the top portion of the system unit carton.

Supplies

None

Security, auditability, and control

Security and auditability features include:

- A power-on password (secured boot) can be used.
- 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 is 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

- One year: Machine type 7327
- Three years: Machine type 7328

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

The following has been designated as a consumable or supply item; therefore, not covered by this warranty:

- Battery

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.

The type of service is Customer Replaceable Unit (CRU) (for example, keyboard, mouse, speaker, memory, or hard disk drive) Service and On-site Service.

CRU Service

IBM provides a replacement 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. A CRU is designated as being either a Tier 1 or a Tier 2 CRU. Installation of a Tier 1 CRU 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, a CRU 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 15 days of your receipt of the replacement.

The following have been designated as a Tier 1 CRU:

- Blank filler
- Cable-management arm
- Hard disk drive
- Hot-swap power supply (option)
- Lift handle kit
- Memory DIMM
- Memory expansion card
- Optical drive
- PCI adapter
- PCI divider
- Power cord
- Service label
- Service processor
- System label
- Top cover
- Voltage regulator module

On-site Service

This provides On-site Repair, 9 hours per day, Monday through Friday excluding holidays, NBD response. IBM or your reseller 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-county service delivery is used.

Call IBM at 1-800-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.

Calls must be received by 5:00 p.m. local time in order to qualify for NBD service.

International Warranty Service

International Warranty Service (IWS) is available in selected countries or regions.

The warranty service type and the service level provided in the servicing country may be different from that provided in the country in which the machine was purchased.

Under IWS, warranty service will be provided with the prevailing warranty service type and service level available for the IWS-eligible machine type in the servicing country and the warranty period observed will be that of the country in which the machine was purchased.

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

<http://www-304.ibm.com/jct01004c/systems/support/supportsite.wss/warrantyform?brandind=5000008>

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

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

ServicePac , ServiceSuite , ServiceElect, and ServiceElite

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

Warranty service upgrade

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

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

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 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.

Maintenance service

If required, IBM provides repair or exchange service depending on the type of maintenance 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.

CRU Service

If your problem can be resolved with a CRU (for example, keyboard, mouse, speaker, memory, or hard disk drive), 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 15 days of your receipt of the replacement.

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.

Maintenance service (ICA)

Maintenance services are available for ICA legacy contracts.

Alternative service (warranty service upgrades)

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

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

A CRU 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 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.

Maintenance service

If required, IBM provides repair or exchange service depending on the type of maintenance 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.

CRU Service

If your problem can be resolved with a CRU (for example, keyboard, mouse, speaker, memory, or hard disk drive), 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 15 days of your receipt of the replacement.

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.

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

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

Warranty service upgrades

IBM hourly service rate classification

One

Field-installable features

No

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

Licensed machine code

IBM Machine Code is licensed for use by a customer on the IBM machine for which it was provided by IBM under the terms and conditions of the IBM License Agreement for Machine Code, to enable the machine to function in accordance with its specifications, and only for the capacity authorized by IBM and acquired by the customer. You can obtain the agreement by contacting your IBM representative or visiting

http://www-304.ibm.com/servers/support/machine_warranties/machine_code.html

IBM may release changes to the Machine Code. IBM plans to make the Machine Code changes available for download from the IBM System x technical support Web site

<http://www-304.ibm.com/systems/support/>

If the machine does not function as warranted and your problem can be resolved through your application of downloadable Machine Code, you are responsible for downloading and installing these designated Machine Code changes as IBM specifies. If you would prefer, you may request IBM to install downloadable Machine Code changes; however, you may be charged for that service.

Educational allowance

None

Prices

For current prices, contact IBM at 888-Shop-IBM (746-7426) or visit

<http://www-03.ibm.com/systems/x/>

The following are newly announced features on the specified models of the IBM xSeries 7327 machine type:

Description	Model Number	Feature Numbers	Initial/ MES/ Both/ Support
IBM System x3200 M3	AC1		
IBM System x3200 M3	MC1		
Server RAID M5015 SAS/SATA Controller	AC1	0093	Initial
	MC1		Initial
24" SATA Cable	AC1	0870	Initial
	MC1		Initial
5.25 to 3.5 Conversion Kit, no Bezel	AC1	0895	Initial
	MC1		Initial
Bezel Kit	AC1	0900	Initial
	MC1		Initial
Universal Adapter Bracket 3.5" to 5.25" - Black	AC1	0918	Initial
	MC1		Initial

EMEA Long Leadtime Configurations	AC1	1763	Initial
	MC1		Initial
Hungary CHW plant 9SH	AC1	1764	Initial
	MC1		Initial
Guad CHW plant 9KQ	AC1	1765	Initial
	MC1		Initial
ISTC CHW 9K2	AC1	1766	Initial
	MC1		Initial
RTP CHW 9NR	AC1	1767	Initial
	MC1		Initial
Offload Manufacturing to Guadalajara HVEC	AC1	1768	Initial
	MC1		Initial
Offload Manufacturing to RTP HVEC	AC1	1769	Initial
	MC1		Initial
Offload Manufacturing to ISTC	AC1	1770	Initial
	MC1		Initial
Routing for AP Foxconn	AC1	1771	Initial
	MC1		Initial
Capacity Scheduling Service	AC1	1772	Initial
	MC1		Initial
5U Tower to Rack Conversion Kit	AC1	1777	Initial
	MC1		Initial
Custom SLA Scheduling Service	AC1	1796	Initial
	MC1		Initial
Labels, Common parts	AC1	2114	Initial
	MC1		Initial
3.5" HDD Rotating Cage	AC1	2116	Initial
	MC1		Initial
Front Bezel (IBM)	AC1	2117	Initial
	MC1		Initial
4 x 3.5" Simple Swap Hard Drive Filler	AC1	2118	Initial
	MC1		Initial
3.5" Hot Swap Hard Drive Filler	AC1	2119	Initial
	MC1		Initial
Custom Asset Tagging - Standard	AC1	2200	Initial
	MC1		Initial
Custom Asset Tagging - Enhanced	AC1	2201	Initial
	MC1		Initial
Custom Image Load - Server	AC1	2204	Initial
	MC1		Initial
Custom Media Shipgroup	AC1	2206	Initial
	MC1		Initial
Custom Software/Firmware Setting - Standard	AC1	2208	Initial
	MC1		Initial
Custom Software/Firmware Setting - Enhanced	AC1	2209	Initial
	MC1		Initial
Custom RAID Configuration	AC1	2212	Initial
	MC1		Initial
Custom Labeling	AC1	2220	Initial

	MC1		Initial
Custom Palletization	AC1	2221	Initial
	MC1		Initial
Request for a new Vendor Logo Hardware	AC1	2247	Initial
	MC1		Initial
Request for an existing IBM Feature	AC1	2248	Initial
	MC1		Initial
Request for an existing Public RPQ	AC1	2249	Initial
	MC1		Initial
RAID Configuration	AC1	2302	Initial
	MC1		Initial
Rack Installation >1U Component	AC1	2306	Initial
	MC1		Initial
Department of Defense UID Label	AC1	2320	Initial
	MC1		Initial
BIOS GBM	AC1	2493	Initial
	MC1		Initial
Worldwide Rack System Packaging	AC1	2549	Initial
	MC1		Initial
System Packaging - WW	AC1	2596	Initial
	MC1		Initial
PRO/1000 PT Dual Port Server Adapter by Intel	AC1	2944	Initial
	MC1		Initial
QLogic iSCSI Single Port PCIe HBA for IBM System x	AC1	2976	Initial
	MC1		Initial
QLogic iSCSI Dual Port PCIe HBA for IBM System x	AC1	2977	Initial
	MC1		Initial
Install in Rack 01	AC1	3101	Initial
	MC1		Initial
Install in Rack 02	AC1	3102	Initial
	MC1		Initial
Install in Rack 03	AC1	3103	Initial
	MC1		Initial
Install in Rack 04	AC1	3104	Initial
	MC1		Initial
Install in Rack 05	AC1	3105	Initial
	MC1		Initial
Install in Rack 06	AC1	3106	Initial
	MC1		Initial
Install in Rack 07	AC1	3107	Initial
	MC1		Initial
Install in Rack 08	AC1	3108	Initial
	MC1		Initial
Install in Rack 09	AC1	3109	Initial
	MC1		Initial
Install in Rack 10	AC1	3110	Initial
	MC1		Initial
Install in Rack 11	AC1	3111	Initial
	MC1		Initial
Install in Rack 12			

	AC1 MC1	3112	Initial Initial
Install in Rack 13			
	AC1 MC1	3113	Initial Initial
Install in Rack 14			
	AC1 MC1	3114	Initial Initial
Install in Rack 15			
	AC1 MC1	3115	Initial Initial
Install in Rack 16			
	AC1 MC1	3116	Initial Initial
Install in Rack 17			
	AC1 MC1	3117	Initial Initial
Install in Rack 18			
	AC1 MC1	3118	Initial Initial
Install in Rack 19			
	AC1 MC1	3119	Initial Initial
Install in Rack 20			
	AC1 MC1	3120	Initial Initial
Install in Rack 21			
	AC1 MC1	3121	Initial Initial
Install in Rack 22			
	AC1 MC1	3122	Initial Initial
Install in Rack 23			
	AC1 MC1	3123	Initial Initial
Install in Rack 24			
	AC1 MC1	3124	Initial Initial
Install in Rack 25			
	AC1 MC1	3125	Initial Initial
Install in Rack 26			
	AC1 MC1	3126	Initial Initial
Install in Rack 27			
	AC1 MC1	3127	Initial Initial
Install in Rack 28			
	AC1 MC1	3128	Initial Initial
Install in Rack 29			
	AC1 MC1	3129	Initial Initial
Install in Rack 30			
	AC1 MC1	3130	Initial Initial
Install in Rack 31			
	AC1 MC1	3131	Initial Initial
Install in Rack 32			
	AC1 MC1	3132	Initial Initial
Install in Rack 33			
	AC1 MC1	3133	Initial Initial
Install in Rack 34			
	AC1 MC1	3134	Initial Initial
Install in Rack 35			
	AC1 MC1	3135	Initial Initial
Install in Rack 36			
	AC1 MC1	3136	Initial Initial

Install in Rack 37	AC1 MC1	3137	Initial Initial
Install in Rack 38	AC1 MC1	3138	Initial Initial
Install in Rack 39	AC1 MC1	3139	Initial Initial
Install in Rack 40	AC1 MC1	3140	Initial Initial
Install in Rack 41	AC1 MC1	3141	Initial Initial
Install in Rack 42	AC1 MC1	3142	Initial Initial
Install in Rack 43	AC1 MC1	3143	Initial Initial
Install in Rack 44	AC1 MC1	3144	Initial Initial
Install in Rack 45	AC1 MC1	3145	Initial Initial
Install in Rack 46	AC1 MC1	3146	Initial Initial
Install in Rack 47	AC1 MC1	3147	Initial Initial
Install in Rack 48	AC1 MC1	3148	Initial Initial
Install in Rack 49	AC1 MC1	3149	Initial Initial
Install in Rack 50	AC1 MC1	3150	Initial Initial
Install in Rack 51	AC1 MC1	3151	Initial Initial
Install in Rack 52	AC1 MC1	3152	Initial Initial
Install in Rack 53	AC1 MC1	3153	Initial Initial
Install in Rack 54	AC1 MC1	3154	Initial Initial
Install in Rack 55	AC1 MC1	3155	Initial Initial
Install in Rack 56	AC1 MC1	3156	Initial Initial
Install in Rack 57	AC1 MC1	3157	Initial Initial
Install in Rack 58	AC1 MC1	3158	Initial Initial
Install in Rack 59	AC1 MC1	3159	Initial Initial
Install in Rack 60	AC1 MC1	3160	Initial Initial
Install in Rack 61	AC1	3161	Initial

	MC1		Initial
Install in Rack 62	AC1	3162	Initial
	MC1		Initial
Install in Rack 63	AC1	3163	Initial
	MC1		Initial
Install in Rack 64	AC1	3164	Initial
	MC1		Initial
Rack location U01	AC1	3201	Initial
	MC1		Initial
Rack location U02	AC1	3202	Initial
	MC1		Initial
Rack location U03	AC1	3203	Initial
	MC1		Initial
Rack location U04	AC1	3204	Initial
	MC1		Initial
Rack location U05	AC1	3205	Initial
	MC1		Initial
Rack location U06	AC1	3206	Initial
	MC1		Initial
Rack location U07	AC1	3207	Initial
	MC1		Initial
Rack location U08	AC1	3208	Initial
	MC1		Initial
Rack location U09	AC1	3209	Initial
	MC1		Initial
Rack location U10	AC1	3210	Initial
	MC1		Initial
Rack location U11	AC1	3211	Initial
	MC1		Initial
Rack location U12	AC1	3212	Initial
	MC1		Initial
Rack location U13	AC1	3213	Initial
	MC1		Initial
Rack location U14	AC1	3214	Initial
	MC1		Initial
Rack location U15	AC1	3215	Initial
	MC1		Initial
Rack location U16	AC1	3216	Initial
	MC1		Initial
Rack location U17	AC1	3217	Initial
	MC1		Initial
Rack location U18	AC1	3218	Initial
	MC1		Initial
Rack location U19	AC1	3219	Initial
	MC1		Initial
Rack location U20	AC1	3220	Initial
	MC1		Initial
Rack location U21	AC1	3221	Initial
	MC1		Initial
Rack location U22			

	AC1	3222	Initial
	MC1		Initial
Rack location U23			
	AC1	3223	Initial
	MC1		Initial
Rack location U24			
	AC1	3224	Initial
	MC1		Initial
Rack location U25			
	AC1	3225	Initial
	MC1		Initial
Rack location U26			
	AC1	3226	Initial
	MC1		Initial
Rack location U27			
	AC1	3227	Initial
	MC1		Initial
Rack location U28			
	AC1	3228	Initial
	MC1		Initial
Rack location U29			
	AC1	3229	Initial
	MC1		Initial
Rack location U30			
	AC1	3230	Initial
	MC1		Initial
Rack location U31			
	AC1	3231	Initial
	MC1		Initial
Rack location U32			
	AC1	3232	Initial
	MC1		Initial
Rack location U33			
	AC1	3233	Initial
	MC1		Initial
Rack location U34			
	AC1	3234	Initial
	MC1		Initial
Rack location U35			
	AC1	3235	Initial
	MC1		Initial
Rack location U36			
	AC1	3236	Initial
	MC1		Initial
Rack location U37			
	AC1	3237	Initial
	MC1		Initial
Rack location U38			
	AC1	3238	Initial
	MC1		Initial
Rack location U39			
	AC1	3239	Initial
	MC1		Initial
Rack location U40			
	AC1	3240	Initial
	MC1		Initial
Rack location U41			
	AC1	3241	Initial
	MC1		Initial
Rack location U42			
	AC1	3242	Initial
	MC1		Initial
ServerRAID-MR10M SAS/SATA Controller			
	AC1	3559	Initial
	MC1		Initial
ServerRAID-MR10i SAS/SATA Controller			
	AC1	3571	Initial
	MC1		Initial
QLogic 8Gb FC Single-port HBA for IBM System x			
	AC1	3578	Initial
	MC1		Initial
QLogic 8Gb FC Dual-port HBA for IBM System x			
	AC1	3579	Initial
	MC1		Initial

Emulex 8Gb FC Single-port HBA for IBM System x	AC1	3580	Initial
	MC1		Initial
Emulex 8Gb FC Dual-port HBA for IBM System x	AC1	3581	Initial
	MC1		Initial
IBM 3Gb SAS HBA Controller v2	AC1	3583	Initial
	MC1		Initial
ServerAID-MR10is VAULT SAS/SATA Controller	AC1	3584	Initial
	MC1		Initial
Brocade 8Gb FC Single-port HBA for IBM System x	AC1	3589	Initial
	MC1		Initial
Brocade 8Gb FC Dual-port HBA for IBM System x	AC1	3591	Initial
	MC1		Initial
73GB 15K 3.5" SAS Hot-Swap HDD	AC1	3748	Initial
	MC1		Initial
146GB 15K 3.5" SAS Hot-Swap HDD	AC1	3749	Initial
	MC1		Initial
1.5m KVM Conversion Cable Set	AC1	3755	Initial
	MC1		Initial
250mm KVM Conversion Cable Set	AC1	3772	Initial
	MC1		Initial
1GB DDR3-1333 1Rx8 LP RDIMM	AC1	3963	Initial
	MC1		Initial
2GB DDR3-1333 2Rx8 LP RDIMM	AC1	3964	Initial
	MC1		Initial
3.5" Hot Swap HDD Enabled	AC1	4030	Initial
	MC1		Initial
Half-High SATA DVD-ROM	AC1	4154	Initial
	MC1		Initial
Half-High SATA Multi-Burner	AC1	4155	Initial
	MC1		Initial
Key Lock Assembly	AC1	4214	Initial
	MC1		Initial
Hot Swap SAS/SATA 4 x 3.5" kit	AC1	4382	Initial
	MC1		Initial
Xeon X3470 2.93GHz/1333MHz-8MB 4C	AC1	4511	Initial
	MC1		Initial
Simple Swap SATA Kit	AC1	4809	Initial
	MC1		Initial
System Documentation and Software-US English	AC1	5001	Initial
	MC1		Initial
System Documentation and Software-Spanish	AC1	5006	Initial
	MC1		Initial
250GB 7200 RPM 3.5" Hot-Swap SATA II	AC1	5151	Initial
	MC1		Initial
146GB 15K 3.5" Hot-Swap SAS	AC1	5162	Initial
	MC1		Initial
500GB 7200 RPM 3.5" Hot-Swap SATA II	AC1	5196	Initial
	MC1		Initial
500GB 7200 RPM 3.5" Simple-Swap SATA II	AC1	5288	Initial

	MC1		Initial
250GB 7200 RPM 3.5" Simple-Swap SATA II	AC1	5292	Initial
	MC1		Initial
IBM DDS Gen 5 SATA Tape Drive	AC1	5392	Initial
	MC1		Initial
IBM Half High LTO Gen 3 SAS Tape Drive	AC1	5393	Initial
	MC1		Initial
IBM DDS Generation 6 USB Tape Drive	AC1	5395	Initial
	MC1		Initial
750GB 7200 RPM 3.5" Hot-Swap SATA II	AC1	5530	Initial
	MC1		Initial
750GB 7200 RPM 3.5" Simple-Swap SATA II	AC1	5531	Initial
	MC1		Initial
300GB 15K 3.5" Hot-Swap SAS	AC1	5532	Initial
	MC1		Initial
IBM Server 1TB 7200 SATA 3.5" Simple Swap HDD	AC1	5559	Initial
	MC1		Initial
IBM 1TB 7200 SATA 3.5" HS HDD	AC1	5560	Initial
	MC1		Initial
IBM 450GB 15K SAS 3.5" HS HDD	AC1	5586	Initial
	MC1		Initial
IBM RDX 160GB Cartridge	AC1	5707	Initial
	MC1		Initial
IBM RDX 320GB Cartridge	AC1	5708	Initial
	MC1		Initial
IBM RDX 500GB Cartridge	AC1	5709	Initial
	MC1		Initial
IBM RDX Internal USB Dock	AC1	5710	Initial
	MC1		Initial
Server RAID M5000 Series Battery Assembly	AC1	5744	Initial
	MC1		Initial
Xeon X3430 2.4GHz/1333MHz-8MB 4C	AC1	5842	Initial
	MC1		Initial
Xeon X3440 2.53GHz/1333MHz-8MB 4C	AC1	5844	Initial
	MC1		Initial
Xeon X3450 2.67GHz/1333MHz-8MB 4C	AC1	5847	Initial
	MC1		Initial
Xeon X3460 2.8GHz/1333MHz-8MB 4C	AC1	5849	Initial
	MC1		Initial
Server RAID-MR10i Li-Ion Battery	AC1	5864	Initial
	MC1		Initial
IBM Virtual Media Key For Entry Systems	AC1	5891	Initial
	MC1		Initial
1.5m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable	AC1	6201	Initial
	MC1		Initial
2.8m, 10A/100-250V, C13 to IEC 320-C20 Rack Power Cable	AC1	6204	Initial
	MC1		Initial
2.8m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable			

	AC1	6311	Initial
	MC1		Initial
2.8m, 10A/120V, C13 to NEMA 5-15P (US) Line Cord	AC1	6313	Initial
	MC1		Initial
Rack power cable - 2.0m, 125-250V, C13 to IEC 320-C14 (WW)	AC1	6316	Initial
	MC1		Initial
Line cord - 1.8m, 10A/250V, C13 to NEMA 6-15P (US)	AC1	6351	Initial
	MC1		Initial
Line cord - 1.8M, 10A/125V, C13 to NEMA 5-15P (US)	AC1	6369	Initial
	MC1		Initial
Line cord - 4.3M, 10A/125V, C13 to NEMA 5-15P (US)	AC1	6370	Initial
	MC1		Initial
Line cord - 2.8m, 10A/250V, C13 to NEMA 6-15P (US)	AC1	6372	Initial
	MC1		Initial
Line cord - 4.3m, 10A/250V, C13 to NEMA 6-15P (US)	AC1	6373	Initial
	MC1		Initial
Base Hardware with High Efficiency Power Supply	AC1	6945	Initial
	MC1		Initial
Base Hardware with Fixed Power Supply	AC1	6946	Initial
	MC1		Initial
Customer Solution Center Services	AC1	7831	Initial
	MC1		Initial
RAID 5 - Primary Array (SATA) - minimum of 3 HDDs required	AC1	7851	Initial
	MC1		Initial
RAID 5 - Primary Array (SAS) - minimum of 3 HDDs required	AC1	7853	Initial
	MC1		Initial
RAID 6 - Primary Array (SATA) - minimum of 4 HDDs required	AC1	7855	Initial
	MC1		Initial
RAID 6 - Primary Array (SAS) - minimum of 4 HDDs required	AC1	7857	Initial
	MC1		Initial
e1350 Special Bid Solution Component	AC1	7929	Initial
	MC1		Initial
No HDD Selected	AC1	8026	Initial
	MC1		Initial
Consolidate Shipment	AC1	8031	Initial
	MC1		Initial
e1350 Solution Component	AC1	8034	Initial
	MC1		Initial
Compute Node	AC1	8036	Initial
	MC1		Initial
Management Node	AC1	8037	Initial
	MC1		Initial
Storage Node	AC1	8038	Initial
	MC1		Initial
TAA Compliant Order	AC1	8067	Initial

	MC1		Initial
General Racking Solution	AC1	8072	Initial
	MC1		Initial
No SATA HDD Selected	AC1	8080	Initial
	MC1		Initial
No 2.5" SAS HDD Selected	AC1	8081	Initial
	MC1		Initial
No 3.5" SAS HDD Selected	AC1	8082	Initial
	MC1		Initial
No Pointing Device Selected	AC1	8084	Initial
	MC1		Initial
No Keyboard Selected	AC1	8085	Initial
	MC1		Initial
No Publications Selected	AC1	8086	Initial
	MC1		Initial
RAID 0 - Primary Array (SATA) - minimum of 2 HDDs required	AC1	8135	Initial
	MC1		Initial
RAID 1 - Primary Array (SATA) - 2 HDDs required	AC1	8136	Initial
	MC1		Initial
RAID 0 - Secondary Array (SATA) - minimum of 2 HDDs required	AC1	8138	Initial
	MC1		Initial
RAID 1 - Secondary Array (SATA) - 2 HDDs required	AC1	8139	Initial
	MC1		Initial
RAID 0 - Primary Array (SAS) - minimum of 2 HDDs required	AC1	8141	Initial
	MC1		Initial
RAID 1 - Primary Array (SAS) - 2 HDDs required	AC1	8142	Initial
	MC1		Initial
RAID 0 - Secondary Array (SAS) - minimum of 2 HDDs required	AC1	8144	Initial
	MC1		Initial
RAID 1 - Secondary Array (SAS) - 2 HDDs required	AC1	8145	Initial
	MC1		Initial
	AC1	8750	Initial
	MC1		Initial
	AC1	8912	Initial
	MC1		Initial
IBM 3 Button Optical Mouse - Black - USB	AC1	8913	Initial
	MC1		Initial
Integrate in manufacturing	AC1	8971	Initial
	MC1		Initial
Ship Uninstalled (Safety)	AC1	8972	Initial
	MC1		Initial
Internal SATA RAID - Cabled and Setup by IBM	AC1	9010	Initial
	MC1		Initial
Internal SATA RAID - Cabled only, Setup by Customer	AC1	9011	Initial
	MC1		Initial
No Internal RAID	AC1	9012	Initial
	MC1		Initial
Hot Spare	AC1	9013	Initial

	MC1		Initial
Internal SAS RAID - Setup by IBM	AC1	9066	Initial
	MC1		Initial
Internal SAS RAID - Setup by Customer	AC1	9067	Initial
	MC1		Initial
Storage Subsystem ID 01	AC1	9170	Initial
	MC1		Initial
Storage Subsystem ID 02	AC1	9171	Initial
	MC1		Initial
Storage Subsystem ID 03	AC1	9172	Initial
	MC1		Initial
Storage Subsystem ID 04	AC1	9173	Initial
	MC1		Initial
Storage Subsystem ID 05	AC1	9174	Initial
	MC1		Initial
Storage Subsystem ID 06	AC1	9175	Initial
	MC1		Initial
Storage Subsystem ID 07	AC1	9176	Initial
	MC1		Initial
Storage Subsystem ID 08	AC1	9177	Initial
	MC1		Initial
Storage Subsystem ID 09	AC1	9178	Initial
	MC1		Initial
Storage Subsystem ID 10	AC1	9179	Initial
	MC1		Initial
Storage Subsystem ID 11	AC1	9180	Initial
	MC1		Initial
Storage Subsystem ID 12	AC1	9181	Initial
	MC1		Initial
Storage Subsystem ID 13	AC1	9182	Initial
	MC1		Initial
Storage Subsystem ID 14	AC1	9183	Initial
	MC1		Initial
Storage Subsystem ID 15	AC1	9184	Initial
	MC1		Initial
Storage Subsystem ID 16	AC1	9185	Initial
	MC1		Initial
Storage Subsystem ID 17	AC1	9186	Initial
	MC1		Initial
Storage Subsystem ID 18	AC1	9187	Initial
	MC1		Initial
Storage Subsystem ID 19	AC1	9188	Initial
	MC1		Initial
Storage Subsystem ID 20	AC1	9189	Initial
	MC1		Initial
Preload Specify	AC1	9200	Initial
	MC1		Initial
Windows Specify	MC1	9201	Initial
Red Hat Specify	AC1	9202	Initial

SuSE Specify	AC1	9203	Initial
AIX Specify	AC1	9204	Initial
Drop-in-the-Box Specify	AC1	9205	Initial
	MC1		Initial
No Preload Specify	AC1	9206	Initial
	MC1		Initial
Internal split SAS cable	AC1	9265	Initial
	MC1		Initial
Internal x3200 M3 USB Cable	AC1	9275	Initial
	MC1		Initial
Server RAID-BR10i1 SAS/SATA Controller v2	AC1	9742	Initial
	MC1		Initial

The following are features already announced for the 7327 machine type:

Description	Model Number	Feature Numbers	Initial/ MES/ Both/ Support
AC1	AC1		
MC1	MC1		
4GB (1x4GB, Quad Rankx8) 1066MHZ LP RDIMM	PC3-8500	CL7 ECC DDR3	
	AC1	1701	Initial
	MC1		Initial
4GB (1x4GB, Dual Rankx8) 1333MHZ LP RDIMM	PC3-10600	CL9 ECC DDR3	
	AC1	1713	Initial
	MC1		Initial
2GB DDR3-1333 2Rx8 LP UDIMM	AC1	1914	Initial
	MC1		Initial
1GB (1x1GB, Single Rankx8) 1333MHZ LP UDIMM	PC3-10600	CL9 ECC DDR3	
	AC1	1915	Initial
	MC1		Initial

The following are newly announced features on the specified models of the IBM xSeries 7328 machine type:

Description	Model Number	Feature Numbers	Initial/ MES/ Both/ Support
IBM System x3200 M3	AC1		
IBM System x3200 M3	MC1		
Server RAID M5015 SAS/SATA Controller	AC1	0093	Initial
	MC1		Initial
24" SATA Cable	AC1	0870	Initial
	MC1		Initial
5.25 to 3.5 Conversion Kit, no Bezel	AC1	0895	Initial
	MC1		Initial
Bezel Kit	AC1	0900	Initial
	MC1		Initial
Universal Adapter Bracket 3.5" to 5.25" - Black			

	AC1	0918	Initial
	MC1		Initial
EMEA Long Leadtime Configurations	AC1	1763	Initial
	MC1		Initial
Hungary CHW plant 9SH	AC1	1764	Initial
	MC1		Initial
Guad CHW plant 9KQ	AC1	1765	Initial
	MC1		Initial
ISTC CHW 9K2	AC1	1766	Initial
	MC1		Initial
RTP CHW 9NR	AC1	1767	Initial
	MC1		Initial
Offload Manufacturing to Guadalajara HVEC	AC1	1768	Initial
	MC1		Initial
Offload Manufacturing to RTP HVEC	AC1	1769	Initial
	MC1		Initial
Offload Manufacturing to ISTC	AC1	1770	Initial
	MC1		Initial
Routing for AP Foxconn	AC1	1771	Initial
	MC1		Initial
Capacity Scheduling Service	AC1	1772	Initial
	MC1		Initial
5U Tower to Rack Conversion Kit	AC1	1777	Initial
	MC1		Initial
Custom SLA Scheduling Service	AC1	1796	Initial
	MC1		Initial
Labels, Common parts	AC1	2114	Initial
	MC1		Initial
3.5" HDD Rotating Cage	AC1	2116	Initial
	MC1		Initial
Front Bezel (IBM)	AC1	2117	Initial
	MC1		Initial
4 x 3.5" Simple Swap Hard Drive Filler	AC1	2118	Initial
	MC1		Initial
3.5" Hot Swap Hard Drive Filler	AC1	2119	Initial
	MC1		Initial
Custom Asset Tagging - Standard	AC1	2200	Initial
	MC1		Initial
Custom Asset Tagging - Enhanced	AC1	2201	Initial
	MC1		Initial
Custom Image Load - Server	AC1	2204	Initial
	MC1		Initial
Custom Media Shipgroup	AC1	2206	Initial
	MC1		Initial
Custom Software/Firmware Setting - Standard	AC1	2208	Initial
	MC1		Initial
Custom Software/Firmware Setting - Enhanced	AC1	2209	Initial
	MC1		Initial
Custom RAID Configuration	AC1	2212	Initial
	MC1		Initial

Custom Labeling	AC1	2220	Initial
	MC1		Initial
Custom Palletization	AC1	2221	Initial
	MC1		Initial
Request for a new Vendor Logo Hardware	AC1	2247	Initial
	MC1		Initial
Request for an existing IBM Feature	AC1	2248	Initial
	MC1		Initial
Request for an existing Public RPQ	AC1	2249	Initial
	MC1		Initial
RAID Configuration	AC1	2302	Initial
	MC1		Initial
Rack Installation >1U Component	AC1	2306	Initial
	MC1		Initial
Department of Defense UID Label	AC1	2320	Initial
	MC1		Initial
BIOS GBM	AC1	2493	Initial
	MC1		Initial
Worldwide Rack System Packaging	AC1	2549	Initial
	MC1		Initial
System Packaging - WW	AC1	2596	Initial
	MC1		Initial
PRO/1000 PT Dual Port Server Adapter by Intel	AC1	2944	Initial
	MC1		Initial
QLogic iSCSI Single Port PCIe HBA for IBM System x	AC1	2976	Initial
	MC1		Initial
QLogic iSCSI Dual Port PCIe HBA for IBM System x	AC1	2977	Initial
	MC1		Initial
Install in Rack 01	AC1	3101	Initial
	MC1		Initial
Install in Rack 02	AC1	3102	Initial
	MC1		Initial
Install in Rack 03	AC1	3103	Initial
	MC1		Initial
Install in Rack 04	AC1	3104	Initial
	MC1		Initial
Install in Rack 05	AC1	3105	Initial
	MC1		Initial
Install in Rack 06	AC1	3106	Initial
	MC1		Initial
Install in Rack 07	AC1	3107	Initial
	MC1		Initial
Install in Rack 08	AC1	3108	Initial
	MC1		Initial
Install in Rack 09	AC1	3109	Initial
	MC1		Initial
Install in Rack 10	AC1	3110	Initial
	MC1		Initial
Install in Rack 11	AC1	3111	Initial

	MC1		Initial
Install in Rack 12	AC1 MC1	3112	Initial Initial
Install in Rack 13	AC1 MC1	3113	Initial Initial
Install in Rack 14	AC1 MC1	3114	Initial Initial
Install in Rack 15	AC1 MC1	3115	Initial Initial
Install in Rack 16	AC1 MC1	3116	Initial Initial
Install in Rack 17	AC1 MC1	3117	Initial Initial
Install in Rack 18	AC1 MC1	3118	Initial Initial
Install in Rack 19	AC1 MC1	3119	Initial Initial
Install in Rack 20	AC1 MC1	3120	Initial Initial
Install in Rack 21	AC1 MC1	3121	Initial Initial
Install in Rack 22	AC1 MC1	3122	Initial Initial
Install in Rack 23	AC1 MC1	3123	Initial Initial
Install in Rack 24	AC1 MC1	3124	Initial Initial
Install in Rack 25	AC1 MC1	3125	Initial Initial
Install in Rack 26	AC1 MC1	3126	Initial Initial
Install in Rack 27	AC1 MC1	3127	Initial Initial
Install in Rack 28	AC1 MC1	3128	Initial Initial
Install in Rack 29	AC1 MC1	3129	Initial Initial
Install in Rack 30	AC1 MC1	3130	Initial Initial
Install in Rack 31	AC1 MC1	3131	Initial Initial
Install in Rack 32	AC1 MC1	3132	Initial Initial
Install in Rack 33	AC1 MC1	3133	Initial Initial
Install in Rack 34	AC1 MC1	3134	Initial Initial
Install in Rack 35	AC1 MC1	3135	Initial Initial
Install in Rack 36			

	AC1 MC1	3136	Initial Initial
Install in Rack 37			
	AC1 MC1	3137	Initial Initial
Install in Rack 38			
	AC1 MC1	3138	Initial Initial
Install in Rack 39			
	AC1 MC1	3139	Initial Initial
Install in Rack 40			
	AC1 MC1	3140	Initial Initial
Install in Rack 41			
	AC1 MC1	3141	Initial Initial
Install in Rack 42			
	AC1 MC1	3142	Initial Initial
Install in Rack 43			
	AC1 MC1	3143	Initial Initial
Install in Rack 44			
	AC1 MC1	3144	Initial Initial
Install in Rack 45			
	AC1 MC1	3145	Initial Initial
Install in Rack 46			
	AC1 MC1	3146	Initial Initial
Install in Rack 47			
	AC1 MC1	3147	Initial Initial
Install in Rack 48			
	AC1 MC1	3148	Initial Initial
Install in Rack 49			
	AC1 MC1	3149	Initial Initial
Install in Rack 50			
	AC1 MC1	3150	Initial Initial
Install in Rack 51			
	AC1 MC1	3151	Initial Initial
Install in Rack 52			
	AC1 MC1	3152	Initial Initial
Install in Rack 53			
	AC1 MC1	3153	Initial Initial
Install in Rack 54			
	AC1 MC1	3154	Initial Initial
Install in Rack 55			
	AC1 MC1	3155	Initial Initial
Install in Rack 56			
	AC1 MC1	3156	Initial Initial
Install in Rack 57			
	AC1 MC1	3157	Initial Initial
Install in Rack 58			
	AC1 MC1	3158	Initial Initial
Install in Rack 59			
	AC1 MC1	3159	Initial Initial
Install in Rack 60			
	AC1 MC1	3160	Initial Initial

Install in Rack 61	AC1 MC1	3161	Initial Initial
Install in Rack 62	AC1 MC1	3162	Initial Initial
Install in Rack 63	AC1 MC1	3163	Initial Initial
Install in Rack 64	AC1 MC1	3164	Initial Initial
Rack location U01	AC1 MC1	3201	Initial Initial
Rack location U02	AC1 MC1	3202	Initial Initial
Rack location U03	AC1 MC1	3203	Initial Initial
Rack location U04	AC1 MC1	3204	Initial Initial
Rack location U05	AC1 MC1	3205	Initial Initial
Rack location U06	AC1 MC1	3206	Initial Initial
Rack location U07	AC1 MC1	3207	Initial Initial
Rack location U08	AC1 MC1	3208	Initial Initial
Rack location U09	AC1 MC1	3209	Initial Initial
Rack location U10	AC1 MC1	3210	Initial Initial
Rack location U11	AC1 MC1	3211	Initial Initial
Rack location U12	AC1 MC1	3212	Initial Initial
Rack location U13	AC1 MC1	3213	Initial Initial
Rack location U14	AC1 MC1	3214	Initial Initial
Rack location U15	AC1 MC1	3215	Initial Initial
Rack location U16	AC1 MC1	3216	Initial Initial
Rack location U17	AC1 MC1	3217	Initial Initial
Rack location U18	AC1 MC1	3218	Initial Initial
Rack location U19	AC1 MC1	3219	Initial Initial
Rack location U20	AC1 MC1	3220	Initial Initial
Rack location U21	AC1	3221	Initial

	MC1		Initial
Rack location U22	AC1	3222	Initial
	MC1		Initial
Rack location U23	AC1	3223	Initial
	MC1		Initial
Rack location U24	AC1	3224	Initial
	MC1		Initial
Rack location U25	AC1	3225	Initial
	MC1		Initial
Rack location U26	AC1	3226	Initial
	MC1		Initial
Rack location U27	AC1	3227	Initial
	MC1		Initial
Rack location U28	AC1	3228	Initial
	MC1		Initial
Rack location U29	AC1	3229	Initial
	MC1		Initial
Rack location U30	AC1	3230	Initial
	MC1		Initial
Rack location U31	AC1	3231	Initial
	MC1		Initial
Rack location U32	AC1	3232	Initial
	MC1		Initial
Rack location U33	AC1	3233	Initial
	MC1		Initial
Rack location U34	AC1	3234	Initial
	MC1		Initial
Rack location U35	AC1	3235	Initial
	MC1		Initial
Rack location U36	AC1	3236	Initial
	MC1		Initial
Rack location U37	AC1	3237	Initial
	MC1		Initial
Rack location U38	AC1	3238	Initial
	MC1		Initial
Rack location U39	AC1	3239	Initial
	MC1		Initial
Rack location U40	AC1	3240	Initial
	MC1		Initial
Rack location U41	AC1	3241	Initial
	MC1		Initial
Rack location U42	AC1	3242	Initial
	MC1		Initial
ServerRAID-MR10M SAS/SATA Controller	AC1	3559	Initial
	MC1		Initial
ServerRAID-MR10i SAS/SATA Controller	AC1	3571	Initial
	MC1		Initial
QLogic 8Gb FC Single-port HBA for IBM System x	AC1	3578	Initial
	MC1		Initial
QLogic 8Gb FC Dual-port HBA for IBM System x			

	AC1	3579	Initial
	MC1		Initial
Emulex 8Gb FC Single-port HBA for IBM System x	AC1	3580	Initial
	MC1		Initial
Emulex 8Gb FC Dual-port HBA for IBM System x	AC1	3581	Initial
	MC1		Initial
IBM 3Gb SAS HBA Controller v2	AC1	3583	Initial
	MC1		Initial
ServerAID-MR10is VAULT SAS/SATA Controller	AC1	3584	Initial
	MC1		Initial
Brocade 8Gb FC Single-port HBA for IBM System x	AC1	3589	Initial
	MC1		Initial
Brocade 8Gb FC Dual-port HBA for IBM System x	AC1	3591	Initial
	MC1		Initial
73GB 15K 3.5" SAS Hot-Swap HDD	AC1	3748	Initial
	MC1		Initial
146GB 15K 3.5" SAS Hot-Swap HDD	AC1	3749	Initial
	MC1		Initial
1.5m KVM Conversion Cable Set	AC1	3755	Initial
	MC1		Initial
250mm KVM Conversion Cable Set	AC1	3772	Initial
	MC1		Initial
1GB DDR3-1333 1Rx8 LP RDIMM	AC1	3963	Initial
	MC1		Initial
2GB DDR3-1333 2Rx8 LP RDIMM	AC1	3964	Initial
	MC1		Initial
3.5" Hot Swap HDD Enabled	AC1	4030	Initial
	MC1		Initial
Half-High SATA DVD-ROM	AC1	4154	Initial
	MC1		Initial
Half-High SATA Multi-Burner	AC1	4155	Initial
	MC1		Initial
Key Lock Assembly	AC1	4214	Initial
	MC1		Initial
Hot Swap SAS/SATA 4 x 3.5" kit	AC1	4382	Initial
	MC1		Initial
Xeon x3470 2.93GHz/1333MHz-8MB 4C	AC1	4511	Initial
	MC1		Initial
Simple Swap SATA Kit	AC1	4809	Initial
	MC1		Initial
System Documentation and Software-US English	AC1	5001	Initial
	MC1		Initial
250GB 7200 RPM 3.5" Hot-Swap SATA II	AC1	5151	Initial
	MC1		Initial
146GB 15K 3.5" Hot-Swap SAS	AC1	5162	Initial
	MC1		Initial
500GB 7200 RPM 3.5" Hot-Swap SATA II	AC1	5196	Initial
	MC1		Initial
500GB 7200 RPM 3.5" Simple-Swap SATA II	AC1	5288	Initial
	MC1		Initial

250GB 7200 RPM 3.5" Simple-Swap SATA II	AC1	5292	Initial
	MC1		Initial
IBM DDS Gen 5 SATA Tape Drive	AC1	5392	Initial
	MC1		Initial
IBM Half High LTO Gen 3 SAS Tape Drive	AC1	5393	Initial
	MC1		Initial
IBM DDS Generation 6 USB Tape Drive	AC1	5395	Initial
	MC1		Initial
750GB 7200 RPM 3.5" Hot-Swap SATA II	AC1	5530	Initial
	MC1		Initial
750GB 7200 RPM 3.5" Simple-Swap SATA II	AC1	5531	Initial
	MC1		Initial
300GB 15K 3.5" Hot-Swap SAS	AC1	5532	Initial
	MC1		Initial
IBM Server 1TB 7200 SATA 3.5" Simple Swap HDD	AC1	5559	Initial
	MC1		Initial
IBM 1TB 7200 SATA 3.5" HS HDD	AC1	5560	Initial
	MC1		Initial
IBM 450GB 15K SAS 3.5" HS HDD	AC1	5586	Initial
	MC1		Initial
IBM RDX 160GB Cartridge	AC1	5707	Initial
	MC1		Initial
IBM RDX 320GB Cartridge	AC1	5708	Initial
	MC1		Initial
IBM RDX 500GB Cartridge	AC1	5709	Initial
	MC1		Initial
IBM RDX Internal USB Dock	AC1	5710	Initial
	MC1		Initial
ServerRAID M5000 Series Battery Assembly	AC1	5744	Initial
	MC1		Initial
Xeon X3430 2.4GHz/1333MHz-8MB 4C	AC1	5842	Initial
	MC1		Initial
Xeon X3440 2.53GHz/1333MHz-8MB 4C	AC1	5844	Initial
	MC1		Initial
Xeon X3450 2.67GHz/1333MHz-8MB 4C	AC1	5847	Initial
	MC1		Initial
Xeon X3460 2.8GHz/1333MHz-8MB 4C	AC1	5849	Initial
	MC1		Initial
ServerRAID-MR10i Li-Ion Battery	AC1	5864	Initial
	MC1		Initial
IBM Virtual Media Key For Entry Systems	AC1	5891	Initial
	MC1		Initial
1.5m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable	AC1	6201	Initial
	MC1		Initial
2.8m, 10A/100-250V, C13 to IEC 320-C20 Rack Power Cable	AC1	6204	Initial
	MC1		Initial
2.8m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable	AC1	6311	Initial

	MC1		Initial
2.8m, 10A/120V, C13 to NEMA 5-15P (US) Line Cord	AC1	6313	Initial
	MC1		Initial
Rack power cable - 2.0m, 125-250V, C13 to IEC 320-C14 (WW)	AC1	6316	Initial
	MC1		Initial
Line cord - 1.8m, 10A/250V, C13 to NEMA 6-15P (US)	AC1	6351	Initial
	MC1		Initial
Line cord - 1.8M, 10A/125V, C13 to NEMA 5-15P (US)	AC1	6369	Initial
	MC1		Initial
Line cord - 4.3M, 10A/125V, C13 to NEMA 5-15P (US)	AC1	6370	Initial
	MC1		Initial
Line cord - 2.8m, 10A/250V, C13 to NEMA 6-15P (US)	AC1	6372	Initial
	MC1		Initial
Line cord - 4.3m, 10A/250V, C13 to NEMA 6-15P (US)	AC1	6373	Initial
	MC1		Initial
Base Hardware with High Efficiency Power Supply	AC1	6945	Initial
	MC1		Initial
Base Hardware with Fixed Power Supply	AC1	6946	Initial
	MC1		Initial
Customer Solution Center Services	AC1	7831	Initial
	MC1		Initial
RAID 5 - Primary Array (SATA) - minimum of 3 HDDs required	AC1	7851	Initial
	MC1		Initial
RAID 5 - Primary Array (SAS) - minimum of 3 HDDs required	AC1	7853	Initial
	MC1		Initial
RAID 6 - Primary Array (SATA) - minimum of 4 HDDs required	AC1	7855	Initial
	MC1		Initial
RAID 6 - Primary Array (SAS) - minimum of 4 HDDs required	AC1	7857	Initial
	MC1		Initial
e1350 Special Bid Solution Component	AC1	7929	Initial
	MC1		Initial
No HDD Selected	AC1	8026	Initial
	MC1		Initial
Consolidate Shipment	AC1	8031	Initial
	MC1		Initial
e1350 Solution Component	AC1	8034	Initial
	MC1		Initial
Compute Node	AC1	8036	Initial
	MC1		Initial
Management Node	AC1	8037	Initial
	MC1		Initial
Storage Node	AC1	8038	Initial
	MC1		Initial
TAA Compliant Order	AC1	8067	Initial
	MC1		Initial

General Racking Solution	AC1	8072	Initial
	MC1		Initial
No SATA HDD Selected	AC1	8080	Initial
	MC1		Initial
No 2.5" SAS HDD Selected	AC1	8081	Initial
	MC1		Initial
No 3.5" SAS HDD Selected	AC1	8082	Initial
	MC1		Initial
No Pointing Device Selected	AC1	8084	Initial
	MC1		Initial
No Keyboard Selected	AC1	8085	Initial
	MC1		Initial
No Publications Selected	AC1	8086	Initial
	MC1		Initial
RAID 0 - Primary Array (SATA) - minimum of 2 HDDs required	AC1	8135	Initial
	MC1		Initial
RAID 1 - Primary Array (SATA) - 2 HDDs required	AC1	8136	Initial
	MC1		Initial
RAID 0 - Secondary Array (SATA) - minimum of 2 HDDs required	AC1	8138	Initial
	MC1		Initial
RAID 1 - Secondary Array (SATA) - 2 HDDs required	AC1	8139	Initial
	MC1		Initial
RAID 0 - Primary Array (SAS) - minimum of 2 HDDs required	AC1	8141	Initial
	MC1		Initial
RAID 1 - Primary Array (SAS) - 2 HDDs required	AC1	8142	Initial
	MC1		Initial
RAID 0 - Secondary Array (SAS) - minimum of 2 HDDs required	AC1	8144	Initial
	MC1		Initial
RAID 1 - Secondary Array (SAS) - 2 HDDs required	AC1	8145	Initial
	MC1		Initial
	AC1	8750	Initial
	MC1		Initial
	AC1	8912	Initial
	MC1		Initial
IBM 3 Button Optical Mouse - Black - USB	AC1	8913	Initial
	MC1		Initial
Integrate in manufacturing	AC1	8971	Initial
	MC1		Initial
Ship Uninstalled (Safety)	AC1	8972	Initial
	MC1		Initial
Internal SATA RAID - Cabled and Setup by IBM	AC1	9010	Initial
	MC1		Initial
Internal SATA RAID - Cabled only, Setup by Customer	AC1	9011	Initial
	MC1		Initial
No Internal RAID	AC1	9012	Initial
	MC1		Initial
Hot Spare	AC1	9013	Initial
	MC1		Initial

Internal SAS RAID - Setup by IBM	AC1	9066	Initial
	MC1		Initial
Internal SAS RAID - Setup by Customer	AC1	9067	Initial
	MC1		Initial
Storage Subsystem ID 01	AC1	9170	Initial
	MC1		Initial
Storage Subsystem ID 02	AC1	9171	Initial
	MC1		Initial
Storage Subsystem ID 03	AC1	9172	Initial
	MC1		Initial
Storage Subsystem ID 04	AC1	9173	Initial
	MC1		Initial
Storage Subsystem ID 05	AC1	9174	Initial
	MC1		Initial
Storage Subsystem ID 06	AC1	9175	Initial
	MC1		Initial
Storage Subsystem ID 07	AC1	9176	Initial
	MC1		Initial
Storage Subsystem ID 08	AC1	9177	Initial
	MC1		Initial
Storage Subsystem ID 09	AC1	9178	Initial
	MC1		Initial
Storage Subsystem ID 10	AC1	9179	Initial
	MC1		Initial
Storage Subsystem ID 11	AC1	9180	Initial
	MC1		Initial
Storage Subsystem ID 12	AC1	9181	Initial
	MC1		Initial
Storage Subsystem ID 13	AC1	9182	Initial
	MC1		Initial
Storage Subsystem ID 14	AC1	9183	Initial
	MC1		Initial
Storage Subsystem ID 15	AC1	9184	Initial
	MC1		Initial
Storage Subsystem ID 16	AC1	9185	Initial
	MC1		Initial
Storage Subsystem ID 17	AC1	9186	Initial
	MC1		Initial
Storage Subsystem ID 18	AC1	9187	Initial
	MC1		Initial
Storage Subsystem ID 19	AC1	9188	Initial
	MC1		Initial
Storage Subsystem ID 20	AC1	9189	Initial
	MC1		Initial
Preload Specify	AC1	9200	Initial
	MC1		Initial
Windows Specify	MC1	9201	Initial
Red Hat Specify	AC1	9202	Initial
suSE specify			

	AC1	9203	Initial
AIX Specify	AC1	9204	Initial
Drop-in-the-Box Specify	AC1	9205	Initial
	MC1		Initial
No Preload Specify	AC1	9206	Initial
	MC1		Initial
Internal split SAS cable	AC1	9265	Initial
	MC1		Initial
Internal x3200 M3 USB Cable	AC1	9275	Initial
	MC1		Initial
ServerRAID-BR10i1 SAS/SATA Controller v2	AC1	9742	Initial
	MC1		Initial

The following are features already announced for the 7328 machine type:

Description	Model Number	Feature Numbers	Initial/ MES/ Both/ Support
AC1	AC1		
MC1	MC1		
4GB (1x4GB, Quad Rankx8) 1066MHZ LP RDIMM	PC3-8500	CL7 ECC DDR3	
	AC1	1701	Initial
	MC1		Initial
4GB (1x4GB, Dual Rankx8) 1333MHZ LP RDIMM	PC3-10600	CL9 ECC DDR3	
	AC1	1713	Initial
	MC1		Initial
2GB DDR3-1333 2Rx8 LP UDIMM	AC1	1914	Initial
	MC1		Initial
1GB (1x1GB, Single Rankx8) 1333MHZ LP UDIMM	PC3-10600	CL9 ECC DDR3	
	AC1	1915	Initial
	MC1		Initial

The following are features already announced for the 7836 machine type:

Description	Model Number	Feature Numbers	Initial/ MES/ Both/ Support
AC1	AC1		
MC1	MC1		
1GB (1x1GB, Single Rankx8) 1333MHZ LP UDIMM	PC3-10600	CL9 ECC DDR3	
	AC1	1915	Initial
	MC1		Initial

The following are features already announced for the 7837 machine type:

Description	Model Number	Feature Numbers	Initial/ MES/ Both/ Support
AC1	AC1		
MC1	MC1		

1GB (1x1GB, Single Rankx8) PC3-10600 CL9 ECC DDR3
1333MHZ LP UDIMM

AC1 1915 Initial
MC1 Initial

The following are features already announced for the 7839 machine type:

Description	Model Number	Feature Numbers	Initial/ MES/ Both/ Support
AC1			
MC1	AC1		
	MC1		
1GB (1x1GB, Single Rankx8) 1333MHZ LP UDIMM	PC3-10600	CL9 ECC DDR3	
	AC1	1915	Initial
	MC1		Initial

Description	SEO Numbers	Initial/ MES/ Both/ Support	CSU
2.4 GHZ X3430 2048 MB S/S SATA	7327C1U	Both	Yes
2.4 GHZ X3430 2048 MB H/S SATA	7327C2U	Both	Yes
2.53 GHZ X3440 2048 MB H/S SATA	732742U	Both	Yes
2.67 GHZ X3450 2048 MB H/S SATA	732754U	Both	Yes
2.8 GHZ X3460 2048 MB H/S SATA	732762U	Both	Yes
Note: DVD-ROM in all models			
2.4 GHZ X3430 2048 MB S/S SATA	7328C1U	Both	Yes
2.4 GHZ X3430 2048 MB H/S SATA	7328C2U	Both	Yes
2.53 GHZ X3440 2048 MB H/S SATA	732842U	Both	Yes
2.67 GHZ X3450 2048 MB H/S SATA	732854U	Both	Yes
2.8 GHZ X3460 2048 MB H/S SATA	732862U	Both	Yes
2.67 GHZ X3450 2048 MB H/S SATA	7328E2U	Both	Yes
Note: DVD-ROM in all models			

Option SEOs Description	SEO Number
4GB (1x4GB, Dual Rankx8) PC3-10600 CL9 ECC DDR3 1333MHZ LP RDIMM	44T1599
1GB (1x1GB, Single Rankx8) PC3-10600 CL9 ECC DDR3 1333MHZ LP UDIMM	44T1568
4GB (1x4GB, Quad Rankx8) PC3- 8500 CL7 ECC DDR3 1066MHZ LP RDIMM	46C7448
2GB (1x2GB, Dual Rankx8) PC3-10600 CL9 ECC DDR3 1333MHZ LP UDIMM	44T1569

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MTM	Service Level	MTM SEO

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7327	ALL	3 YR IOR 9x5 4 Hour	675665B	51J9053
7327	ALL	3 YR IOR 24x7 4 Hour	675665C	51J9054
7327	ALL	3 YR IOR 24x7 2 Hour	675665D	51J9055
7328	ALL	3 YR IOR 9x5 4 Hour	675665F	51J9064
7328	ALL	3 YR IOR 24x7 4 Hour	675665G	51J9065
7328	ALL	3 YR IOR 24x7 2 Hour	675665H	51J9066
7328	ALL	4 YRS IOR 9x5 NBD	675665J	51J9067
7328	ALL	4 YR IOR 9x5 4 Hour	675665K	51J9068
7328	ALL	4 YR IOR 24x7 4 Hour	675665M	51J9069
7328	ALL	4 YRS IOR 24x7 2 Hour	675665N	51J9070
7328	ALL	5 YRS IOR 9x5 NBD	675665P	51J9071
7328	ALL	5 YR IOR 9x5 4 Hour	675665Q	51J9072
7328	ALL	5 YR IOR 24x7 4 Hour	675665R	51J9073
7328	ALL	5 YR IOR 24x7 2 Hour	675665S	51J9074

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7327	ALL	1 YR IOR 9x5 NBD (MA)	6756DCQ	51J9056
7328				
7327	ALL	1 YR IOR 9x5 4 Hour (MA)	6756DCR	51J9057
7328				
7327	ALL	1 YR IOR 24x7 4 Hour (MA)	6756DCS	51J9058
7328				
7327	ALL	1 YR IOR 24x7 2 Hour (MA)	6756DCT	51J9059
7328				
7327	ALL	2 YR IOR 9x5 NBD (MA)	6756DCU	51J9060
7328				
7327	ALL	2 YR IOR 9x5 4 Hour (MA)	6756DCV	51J9061
7328				
7327	ALL	2 YR IOR 24x7 4 Hour (MA)	6756DCW	51J9062
7328				
7327	ALL	2 YR IOR 24x7 2 Hour (MA)	6756DCX	51J9063
7328				

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