

# IBM System x3300 M4 tower servers feature fast 4C or 6C Intel Xeon processors with one QPI link and 10 MB or 15 MB cache for enhanced performance and scalability

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## At a glance



IBM® System x3300 M4 servers feature:

- A 1.8 GHz/6.4 GTS-10 MB 4C Intel™ E5-2403, a 2.2 GHz/6.4 GTS-10 MB 4C E5-2407, a 1.9 GHz/7.2 GTS-15 MB 6C E5-2420, a 2.2 GHz/7.2 GTS-15 MB 6C E5-2430, or a 2.4 GHz/7.2 GTS-15 MB 6C E5-2440, Intel Xeon™ processor data bus to the system with one QPI link.
- 2 GB or 4 GB of 1333 MHz DDR3 ECC system memory<sup>1</sup>; 48 GB maximum or 384 GB maximum when 32 GB DIMMs installed; Express® models have 8 GB.
- Eight-port SAS/SATA with RAID controller.
- One fixed 460-watt 80 Plus Bronze certified power supply fitted standard; one hot-swap 550-watt 80 Plus Platinum certified redundant power supply on Models D2, D4, and F2.
- Integrated management module (IMM2).
- Five PCI-Express card slots standard, one PCI-Express card slot enabled with dual processors, and one optional PCI-X card slot when using interposer card.
- Support for up to sixteen 2.5-inch drives plus one standard optical drive and one optional half-height tape drive, or up to eight 3.5-inch drives plus one standard optical drive and one optional half-height tape drive.
- Up to 16 TB<sup>2</sup> with 1 TB 2.5-inch HS NL SFF SAS/SATA disk drives.

- Intel I350CM2 integrated Quad Gigabit Ethernet controllers, two ports standard and two more ports using Software license key and SAS or SATA support.
- SVGA video with 16 MB memory shared.
- Support for optional Remote Presence function.
- 4U tower industry-standard models, rack mount through special bid or option.
- Two USB front and four USB rear ports, two USB internal port, one d-sub connector, four 10/100/1000 RJ45 ports, and one serial port.

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: YE001).

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## Overview

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The System x3300 M4 servers include:

- Quickpath Interconnect (QPI) support for 6.4 and 7.2 Gigabit transfers per second (GTS), supporting one QPI link.
- Two simple-swap fans standard with single processor or three simple-swap fans standard with dual processors. Optional redundant cooling option and power supplies are available.
- Five PCI-Express card slots standard; one PCI-Express card slot enabled with dual processors; and one optional PCI-X card slot when using interposer card.
- Integrated dual Gigabit Ethernet, quad with software upgrade.
- RAID-0, RAID-1, and RAID-10 support standard or optional RAID-1E, RAID-5, RAID-10, and RAID-50 using a PCI-E adapter.
- DDR3 ECC DIMMs, combined with an integrated ECC memory controller in core logic that corrects many soft and hard single-bit memory errors and minimizes disruption of service to LAN clients.
- Integrated management module (IMM2) with optional Remote Presence function.
- Light path diagnostics with a light path panel visible at front of chassis.

### Powered and scaled for business growth

- These servers contain one of the following:
  - A 1.8 GHz/6.4 GTS-10 MB 4C Intel E5-2403, a 2.2 GHz/6.4 GTS-10 MB 4C E5-2407, a 1.9 GHz/7.2 GTS-15 MB 6C E5-2420, a 2.2 GHz/7.2 GTS-15 MB 6C E5-2430, or a 2.4 GHz/7.2 GTS-15 MB 6C E5-2440, Intel Xeon processor data bus to the system with one QPI link.
- Either a 1066 MHz or 1333 MHz functional speed processor operations to memory.
- 2 GB or 4 GB of high-speed DDR3 - 1333 MHz ECC memory<sup>1</sup>, 48 GB maximum using 4 GB memory DIMMs<sup>6</sup>, or 384 GB maximum using 32 GB memory DIMMs<sup>7</sup>, Express models come standard with 8 GB.
- High-speed, wide-bandwidth slots: Five PCI-Express card slots with single processor, one more PCI-Express card slot with dual processors, and one optional PCI-X card slot when using interposer card.
- Intel I350CM2 integrated Quad Gigabit Ethernet controllers, two ports standard and two more ports using Software license key and SAS or SATA support.
- Standard SATA DVD-ROM and tape drive bay.
- Eight standard 2.5-inch hot-swap drive bays and up to sixteen 2.5-inch bays available when using upgrade options with total HDD storage capacity of 16 TB, when using 1 TB Near-Line SFF SAS/SATA HDD options.

### High availability for around-the-clock business demands

- Integrated management module (IMM2) and support for the optional Remote Presence function.
- Wake on LAN.

- ECC memory to detect double-bit errors and correct single-bit errors.
- Integrated memory mirroring and sparing.

### **Service and support perfected for business needs**

- ServerGuide and IBM Director.
- IBM Server support and web support<sup>3</sup>.
- Three-year, customer replaceable unit (CRU) and on-site service<sup>4</sup>, limited warranty<sup>5</sup>; optional warranty service upgrades available.

**Note:** For configurations that support the RAID battery, the RAID battery will be warranted for one year effective on its "date of installation." All other product warranty terms for the machine remain unchanged.

### **IBM x3300 M4 Express Models**

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New System x® configurations are being added to the IBM Express Portfolio™, designed and priced meet the needs of mid-sized businesses. Reliable and easy to manage, Express models and configurations vary by country. They further enhance the ease of doing business with IBM by offering a robust portfolio of products supported by aggressive pricing and simplified incentives.

The latest System x Express models consist of relevant system configurations for the System x3300 M4 servers.

System x Express servers deliver robust capabilities while taking into account limited resources and budgets. Find the right hardware for your business needs today, while helping to protect your investments with flexible, scalable products that can grow with your business.

#### **Notes :**

<sup>1</sup>DDR3 1333 RDIMM memory. DDR3 memory stands for double data rate, which means up to twice the data is transferred compared to SDRAM in the same clock cycle.

<sup>2</sup>When referring to HDD or tape backup capacity, GB stands for 1,000,000,000 bytes and TB stands for 1,000,000,000,000 bytes. User capacity may vary depending on operating environments.

<sup>3</sup>Some programs may not be available in all countries.

<sup>4</sup>With respect to on-site service, you may be asked certain diagnostic questions before a technician is sent.

<sup>5</sup>For information on the IBM Statement of Limited Warranty, visit

[http://www.ibm.com/servers/support/machine\\_warranties/](http://www.ibm.com/servers/support/machine_warranties/)

This information is also available by calling 800-426-7378 or contacting your IBM representative or reseller. Copies are available upon request.

<sup>6</sup>Twelve DIMM slots that enable you to deploy up to 384 GB of DDR3 SDRAM Registered DIMM memory, with 12 slots populated with 32 GB DIMMs optional, 2 GB or 4 GB memory standard.

<sup>7</sup>2.5-inch Drive bays provide 8.0 TB using 8x 1 TB SFF SAS HDD options, this can be doubled to 16 TB with optional 8x 2.5-inch HDD upgrade. (Special bid models support up to sixteen 2.5-inch bays with an additional 8 TB of HDD capacity for a total of 16 TB).

3.5-inch Drive bays provide 12 TB as standard using 4x 3 TB LFF SAS/SATA HDD options. This can be doubled to 24 TB with optional 4x 3.5-inch HDD upgrade. For the latest information on supported HDD options, visit

<http://www-03.ibm.com/systems/info/x86servers/serverproven/compat/us/>

### **Feature exchange**

None

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## **Key prerequisites**

- Monitor
- Keyboard (only in EMEA and United States, Latin America, and Canada)
- Mouse (only in EMEA and United States, Latin America, and Canada)

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## **Planned availability date**

August 22, 2012: System x3300 M4 - 7382

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## **Description**

### **Related options**

#### **IBM memory options**

- 2 GB (1 x 2 GB, 2R x 8, 1.35V) PC3L-10600 CL9 ECC DDR3 1333MHz LP RDIMM (49Y1392)
- 2 GB (1 x 2 GB, 1R x 4, 1.35V) PC3L-10600 CL9 ECC DDR3 1333MHz LP RDIMM (49Y1393)
- 4 GB (1 x 4 GB, 2R x 4, 1.35V) PC3L-10600 CL9 ECC DDR3 1333MHz LP RDIMM (49Y1394)

#### **IBM processor options**

- Intel Xeon Processor E5-2403 4C 1.8GHz 10MB Cache 1066MHz 80W (00D2581)
- Intel Xeon Processor E5-2407 4C 2.2GHz 10MB Cache 1066MHz 80W (00D2582)
- Intel Xeon Processor E5-2420 6C 1.9GHz 15MB Cache 1333MHz 95W (00D2583)
- Intel Xeon Processor E5-2430 6C 2.2GHz 15MB Cache 1333MHz 95W (00D2584)
- Intel Xeon Processor E5-2440 6C 2.4GHz 15MB Cache 1333MHz 95W (00D2585)

These 4C and 6C processors are ideal for data-intensive applications that range from data mining to evolving web services. Innovative technologies deliver processing speeds of up to 2.7 GHz/8.0 GTS with performance headroom for unpredictable server workloads and escalating computing needs.

Intel Xeon processors with 10 MB or 15 MB cache feature Intel Turbo Boost 2.0 Technology that provides maximum turbo mode duration and speed to improve power and thermal management. The new intelligent performance processors adapt to software workload environment, delivering more computing power when needed. The new Intel Integrated I/O integrates PCIe adaptors into the processor for lower latency and power while growing total capacity and bandwidth.

These enhancements add up to faster response times, support for more simultaneous users, and increased transaction workloads.

These Intel DP processors with Quickpath Interconnect (QPI), with one link, support SMP applications when installed in the second processor slot of System x3300 M4 models with similar processors.

**Note:** DDR3 ECC DIMMs, combined with an integrated ECC memory controller, correct many soft and hard single-bit memory errors, and minimize disruption of service to LAN clients. Chipkill distributes information covered by error correction coding across separate memory chips, so if any of the chips fail, the data can still be reconstructed from the remaining chips, and the system can continue running.

Increased processor performance coupled with DDR memory enables you to retrieve and process information faster and more efficiently. DDR memory executes twice the number of operations per cycle than traditional SDRAM memory, effectively doubling the data exchange rate between memory and processors.

### **ServeRAID controllers supported**

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- IBM 6Gb SAS HBA Controller (46M0907)
- ServeRAID M1115 SAS/SATA Controller for System x (81Y4448)
- ServeRAID M5110 SAS/SATA Controller for IBM System x(81Y4481)
- ServeRAID M5100 Series 512MB Cache/RAID 5 Upgrade for IBM System x (81Y4484)
- ServeRAID M5100 Series 512MB Flash/RAID 5 Upgrade for IBM System x (81Y4487)
- ServeRAID M5100 Series Battery Kit for IBM System x (81Y4508)
- ServeRAID M1100 Series Zero Cache/RAID 5 Upgrade for IBM System x (81Y4542)
- ServeRAID M5100 Series Zero Cache/RAID 5 Upgrade for IBM System x (81Y4544)
- ServeRAID M5100 Series RAID 6 Upgrade for IBM System x (81Y4546)
- ServeRAID M5100 Series 1GB Flash/RAID Upgrade for IBM System x (81Y4559)

### **IBM support options**

- Tower to Rack Conversion Kit (00D2594)
- PCI-X Interposer Conversion Kit (81Y7012)
- Additional 8 x 2.5" Hot-Swap SAS/SATA Upgrade Kit for 16 (00D2592)
- Redundant Cooling Upgrade Kit (00D2593)

### **IBM Redundant Power and Cooling Option**

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The redundant power supplies are designed to supply power for all systems.

### **High-performance server subsystems**

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System x3300 M4 servers are high-throughput, two-way, SMP-capable network servers with excellent performance scalability when you add memory and a second processor. They incorporate powerful Intel Xeon processors with 10 MB or 15 MB cache, model dependent. These flip-chip, land grid array 6 (FC-LGA6) processors feature advanced transfer caches integrated onto the processor core and run at the same clock speed as the processor core.

Two processor connectors are standard on the system board to support installation of a second processor. High-speed, 1333 MHz DDR3 RDIMMs are optimized for 1333 MHz processor-to-memory subsystem performance. The System x3300 M4 server uses the Intel Patsburg chipset- C600 to maximize throughput from processor to memory and system I/O buses.

## Standard System x3300 M4 configurations

Model	Processor	Cache	Memory	SAS Interface	Mechanical
7382-A2x	1.8 GHz/6.4 GTS	10 MB	2 GB	SS SATA	Tower
7382-B2x	2.2 GHz/6.4 GTS	10 MB	4 GB	HS SATA	Tower
7382-C2x	1.9 GHz/7.2 GTS	15 MB	4 GB	HS SAS/SATA	Tower
7382-D2x	2.2 GHz/7.2 GTS	15 MB	4 GB	HS SAS/SATA	Tower
7382-D4x	2.2 GHz/7.2 GTS	15 MB	4 GB	HS SFF SAS/SATA	Tower
7382-F2x	2.4 GHz/7.2 GTS	15 MB	4 GB	HS SFF SAS/SATA	Tower

Note: For EMEA x=G

### Express models

Model	Processor	Cache	Memory	SAS Interface	Mechanical
7382-EAU	2.2 GHz/6.4 GTS	10 MB	8 GB open-bay	HS SAS/SATA	Tower
7382-EBU	1.9 GHz/7.2 GTS	15 MB	8 GB open-bay	HS SAS/SATA	Tower
7382-ECU	2.4 GHz/7.2 GTS	15 MB	8 GB open-bay	HS SFF SAS/SATA	Tower

### Additional features:

- Ability to upgrade to two-way processing by adding a second processor of the same speed and processor type
  - System board that contains 6 DIMM connectors and CPU expansion board that contains 6 DIMM connectors supporting 2 GB, 4 GB, 8 GB, 16 GB, or 32 GB 1066 MHz, or 1333 MHz, DDR3 memory, model dependent
    - Up to 192 GB of system memory with 16 GB memory RDIMMs installed or up to 384 GB system memory with 32 GB memory LR DIMMs installed
  - High-speed, wide-bandwidth, PCI-E and PCIx bus slots support
    - Slot 1 : PCIe 3.0 x8 : PCI-E x8 slot with x8lanes (3.0, from processor 2)
    - Slot 2 : PCIe 3.0 x8 : PCI-E x8 slot with x8lanes (3.0, from processor 1)
    - Slot 3 : PCIe 3.0 x8 : PCI-E x8 slot with x4 lanes (3.0, from processor 1)
    - Slot 4 : PCIe 3.0 x16 : PCI-E x16 slot with x8 lanes (3.0, from processor 1)
    - Slot 5 : PCIe2 x4 : PCI-E x4 slot with x1 lanes (Gen2, from PCH)
    - Slot 6 : PCIe2 x8 : PCI-E x8slot with x4 lanes (Gen2, from PCH)
- Note:** Slot 6 can optionally be changed to a PCI-X slot using interposer card.
- Eight-port SAS/SATA RAID 6 controller that supports high-speed internal storage solutions
  - Two Ethernet controller ports standard and can be upgraded to quad ports using software license, increasing speed for network communications to LAN clients

The x3300 M4 subsystems are tuned to provide solid system throughput from processor, to memory, to bus, to disk-intensive I/O. These features, combined with SMP capability, make the System x3300 M4 server an excellent choice for a stand-alone or clustered business-critical application, storage, file, and print server.

### High-availability and serviceability features

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- Redundant cooling includes:
  - Three simple-swap fans (single replaceable unit)
- One fixed power supply standard, and one optional redundant power supply to support robust high-availability applications
- Hot-swap HDD bays with SAS/SATA backplane
- Standard SAS controller to support up to eight internal hot-swap SATA or SAS HDD devices

- DDR3 ECC RDIMMs, combined with an integrated ECC memory controller in core logic, to correct many soft and hard single-bit memory errors (using memory mirroring), while minimizing disruption of services to LAN clients
- Memory hardware scrubbing to correct soft memory errors automatically without software intervention
- 10 MB and 15 MB cache processors to improve data integrity and help reduce downtime
- PFA on memory to help alert the system administrator of an imminent component failure
- Up to four simple-swap redundant system cooling fans to cool system
- Integrated management module (IMM2) that supports:
  - Fan monitoring and control
  - Power supply monitoring
  - Temperature monitoring
  - Voltage monitoring
  - Power on/off, reset sequencing
  - LED controls (light path diagnostics support)
  - IPMI capability that allows you to accept commands and send status
  - Remote firmware update
  - Automatic server restart (ASR)<sup>8</sup>
  - Numeric error logging
- Information LED panel to give visual indications of system health
- Light path diagnostics and onboard diagnostics for an LED map that provides error codes (which are explained in the hardware maintenance manual)
- Easy access to system board, adapter cards, processor, and memory
- CPU failure recovery in SMP configurations
  - Generates alerts error logs

<sup>8</sup>The ASR function is currently supported on Microsoft™ Windows™ 2003 and Windows 2008.

## **Expandability and growth**

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The System x3300 M4 server is a 4U tower configuration engineered to meet the compactness of a 4U rack drawer. SVGA video, SAS/SATA, and full-duplex Gigabit Ethernet are integrated on the system board.

Features include:

- System memory expansion to 192 GB with 16 GB memory RDIMMs installed in 12 DIMM slots or 384 GB with 32 GB Memory LRDIMMs installed in 12 DIMM slots
- Five PCI-E slots with single processor, one PCI-Express slot enabled with dual processors and one optional PCI-X card slot when using interposer card
- Up to 16 drive bays plus two 5.25 inch, half-high device bays:
  - Eight 2.5-inch, hot-swap drive bays; two 5.25-inch, half-high device bays standard
  - Optional HDD upgrade kits available to increase the number of storage devices from eight to sixteen, 2.5-inch hot-swap drive bays
  - Internal support for high performance (up to 15,000 rpm) for up to eight SAS HDDs and a high-capacity half-height tape backup device
  - Up to 16 TB, using 1 TB 2.5-inch NL SFF SAS/SATA hot-swap HDDs<sup>2</sup>

These servers can handle applications for today and expand for future growth.

<sup>2</sup>When referring to HDD or tape backup capacity, GB stands for 1,000,000,000 bytes and TB stands for 1,000,000,000,000 bytes. User capacity may vary depending on operating environments.

## **Systems management**

### **Integrated management module controller (IMM2)**

The System x3300 M4 server includes an integrated management module controller that provides industry-standard Intelligent Platform Management Interface (IPMI) 2.0-compliant systems management. The IMM2 comes standard, and has a dedicated onboard Ethernet port for access. IMM2 can be accessed using software that is compatible with IPMI 2.0 (such as xCAT).

- Features and benefits
  - Monitoring of system and CMOS battery voltages.
  - Monitoring of system temperatures.
  - Fan speed control.
  - Fan tachometer monitor.
  - Power good signal monitor.
  - System ID and planar version detection.
  - System power control.
  - System reset control.
  - NMI and SMI detection and generation (System Interrupts).
  - Serial port text console redirection.
  - System LED control (power, HDD, activity, alerts, and heartbeat).
  - An embedded web server gives you remote control from any standard web browser. No additional software is required on the remote administrator's workstation.
  - For users who are accustomed to a command-line interface (CLI), the ability for the administrator to use the CLI from a Telnet session to perform some of the functions that can be performed from the web server.
  - Secure Sockets Layer (SSL) and Lightweight Directory Access Protocol (LDAP).
  - Built-in LAN and serial connectivity that supports virtually any network infrastructure.
  - Multiple alerting functions that warn systems administrators of potential problems through email, IPMI PETS, and SNMP.

### **IBM Director**

x3300 M4 servers feature IBM Director, a powerful, highly integrated systems management software solution built on industry standards and designed for ease of use. Exploit your existing enterprise or workgroup management environments and use rich security features to access and manage physically dispersed IT assets more efficiently over the Internet.

Potentially reduce costs through:

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

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

- Tivoli® Enterprise and Tivoli NetView®
- Computer Associates CA Unicenter TNG Framework

- NetIQ
- IMM Patrol
- Microsoft SMS
- Intel LANDesk Management Suite
- HP OpenView Network Node Manager

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

IBM Director includes IBM Director Extensions, a portfolio of server tools that integrate into the Director framework and work with the integrated systems management processor to access environmental system information.

The processor supervises the operating system status and the following system components, and alerts the IT administrator to critical errors:

- Fan monitoring and control; status and presence are monitored. Fan speed is controlled and automatically increased to maintain system cooling if temperature thresholds are exceeded. An alert is generated if:
  - Failure occurs or is predicted.
  - Installation or removal occurs.
- Power supply condition changes for the power supply.
  - CPU temperatures are monitored. An alert is generated if (preset) temperature warning thresholds are exceeded or restored, and if critical temperature thresholds are exceeded. Soft and hard system shutdowns are automatically initiated if critical temperature thresholds are exceeded.
  - CPU and power subsystem voltage thresholds are monitored.
  - Light path diagnostics LEDs are illuminated in case of key component errors or failures to enable quick local diagnostics and servicing.
  - Flash update enables updates to the integrated systems management processor firmware.

The IT administrator has comprehensive, virtual on-site control of System x servers and can remotely:

- Access the server regardless of the status
- Inventory and often 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
- Run diagnostics, SAS/SATA setup, and RAID setup during POST
- Monitor thresholds on server health, including:
  - Operating system load
  - POST time-out
  - Voltage
  - Temperature
- Set proactive alerts for critical server events, including PFA on:
  - Processors
  - Memory
- Define automated actions, such as:
  - Send email or a page to an administrator
  - Run a command or program
  - Deliver an error message to the Director console
- Monitor flash BIOS

- Monitor and graph the utilization of server resources, such as:
  - Memory
  - Processor
  - HDDs
- Identify potential performance bottlenecks and react to prevent down time
- Monitor, manage, and configure RAID subsystems without taking them offline

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### **Advanced Configuration and Power Interface (ACPI)**

This open industry specification defines a flexible and extensible hardware interface for the system board. Software designers use this specification to integrate power management features throughout a computer system, including hardware, the operating system, and application software. This integration enables Windows to determine which applications are active, and handles all of the power management resources for computer subsystems and peripherals.

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### **World-class support tools and programs**

The System x3300 M4 server includes tools and programs designed to make ownership a positive experience. From the start, IBM programs help you purchase servers, get them running, and keep them running. IBM can help your company maintain ownership of technology leadership network servers.

- Support is available by calling 800-IBM SERV (426-7378) in US and Canada for problem determination or placement of service calls for warranty.
- Warranty: Three years, customer replaceable unit (CRU) and on-site service, limited warranty; optional warranty service upgrades available.
- The ServerProven<sup>®</sup> program enables you to configure your server confidently with various devices and operating systems. This web-based program provides compatibility information from actual testing of the System x3300 M4 servers server with various adapters and devices.
- The ServerGuide CD includes utilities and drivers for assisted installation of popular network operating systems.
- Electronic support on the web provides additional support in an easy-to-use format.

<sup>9</sup> IBM makes no warranties, expressed or implied, regarding non-IBM products and services that are ServerProven, including but not limited to implied warranties of merchantability and fitness for a particular purpose. These products are offered and warranted solely by third parties.

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## **Product positioning**

The System x3300 M4 server is positioned above the entry, one-way x3100 M4. These servers comes standard with many advanced availability features, including RAID for high system reliability. High-performance, low-voltage system memory for speed and efficiency as well as enhanced systems management control. As universal servers, they are offered in flexible tower models and can be rack-mounted using a tower-to-rack conversion kit.

The System x3300 M4 server is a compact 4U two-way, SMP-capable Xeon processor-based platform designed with integrated high-availability features for small-and-medium-sized businesses as a departmental or branch office server. They process print and file transactions or office suite applications with ease.

These servers are ideal for clients who require up to sixteen core processing power, ample memory, and storage capacity, and high-speed I/O scalability. These servers are ideal for business platforms to run everyday business applications.

## Product number

### Single Entity Offerings (SEOs)

Description	SEO number
IBM System x3300 M4	7382A2U 7382B2U 7382C2U 7382D2U 7382D4U 7382F2U
IBM System x3300 M4 Express	7382EAU 7382EBU 7382ECU

### Option SEOs

Description	SEO number
IBM System x3300 3.5" HS kit for HW/SW RAID	00D2591
Redundant System FAN	00D2593
Tower to Rack Kit	00D2594
IBM System x3300 Simple-Swap SATA Kit 4x3.5"	00D2590
IBM System x3300 2nd 2.5" HS Upgrade Kit	00D2592
Intel Xeon Processor E5-2403 4C 1.8GHz 10MB Cache 1066MHz 80W	00D2581
Intel Xeon Processor E5-2407 4C 2.2GHz 10MB Cache 1066MHz 80W	00D2582
Intel Xeon Processor E5-2420 6C 1.9GHz 15MB Cache 1333MHz 95W	00D2583
Intel Xeon Processor E5-2430 6C 2.2GHz 15MB Cache 1333MHz 95W	00D2584
Intel Xeon Processor E5-2440 6C 2.4GHz 15MB Cache 1333MHz 95W	00D2585
Intel Xeon Processor E5-2430L 6C 2.0GHz 15MB Cache 1333MHz 60W	00D2586
Intel Xeon Processor E5-2450L 8C 1.8GHz 20MB Cache 1600MHz 70W	00D2587
Intel Xeon Processor E5-2450 8C 2.1GHz 20MB Cache 1600MHz 95W	00D2588
Intel Xeon Processor E5-2470 8C 2.3GHz 20MB Cache 1600MHz 95W	00D2589

The following are newly announced features on the specified models of the IBM xSeries® 7382 machine type:

Description	MT	Model	Feature
7382-AC1	7382	AC1	
7382-MC1	7382	MC1	
QLogic 10Gb SFP+ SR Optical Transceiver	7382	AC1 MC1	0064
Brocade 10Gb SFP+ SR Optical Transceiver	7382	AC1 MC1	0069
UID Asset Tag Label	7382	AC1 MC1	0747
24" SATA Cable	7382	AC1 MC1	0870
NetXtreme II 1000 Express G Ethernet Adapter- PCIe	7382	AC1 MC1	1485
Brocade 10Gb CNA for IBM System x	7382	AC1 MC1	1637
Emulex 4Gb FC Single-Port PCI-E HBA for IBM System x	7382	AC1 MC1	1698
Emulex 4Gb FC Dual-Port PCI-E HBA for IBM System x	7382	AC1 MC1	1699
EMEA Long Leadtime Configurations	7382	AC1 MC1	1763
Hungary CHW plant 9SH	7382	AC1	1764

		MC1	
Guad CHW plant 9KQ	7382	AC1	1765
		MC1	
ISTC CHW 9K2	7382	AC1	1766
		MC1	
RTP CHW 9NR	7382	AC1	1767
		MC1	
Offload Manufacturing to Guadalajara HVEC	7382	AC1	1768
		MC1	
Offload Manufacturing to RTP HVEC	7382	AC1	1769
		MC1	
Offload Manufacturing to ISTC	7382	AC1	1770
		MC1	
Routing for AP Foxconn	7382	AC1	1771
		MC1	
Capacity Scheduling Service	7382	AC1	1772
		MC1	
Custom SLA Scheduling Service	7382	AC1	1796
		MC1	
Custom Asset Tagging - Standard	7382	AC1	2200
		MC1	
Custom Asset Tagging - Enhanced	7382	AC1	2201
		MC1	
Custom Image Load - Server	7382	AC1	2204
		MC1	
Custom Media Shipgroup	7382	AC1	2206
		MC1	
Request for Global Trade Number (UPC or EAN)	7382	AC1	2207
		MC1	
Custom Software/Firmware Setting - Standard	7382	AC1	2208
		MC1	
Custom Software/Firmware Setting - Enhanced	7382	AC1	2209
		MC1	
Custom RAID Configuration	7382	AC1	2212
		MC1	
Custom Labeling	7382	AC1	2220
		MC1	
Custom Palletization	7382	AC1	2221
		MC1	
Request for a new Vendor Logo Hardware	7382	AC1	2247
		MC1	
Request for an existing IBM Feature	7382	AC1	2248
		MC1	
Request for an existing Public RPQ	7382	AC1	2249
		MC1	
RAID Configuration	7382	AC1	2302
		MC1	
Rack Installation >1U Component	7382	AC1	2306
		MC1	
Primary Array 12 HDDs	7382	AC1	2400
		MC1	
Primary Array 13 HDDs	7382	AC1	2401
		MC1	
Primary Array 14 HDDs	7382	AC1	2402
		MC1	
Primary Array 15 HDDs	7382	AC1	2403
		MC1	
Primary Array 16 HDDs	7382	AC1	2404
		MC1	
Secondary Array 9 HDDs	7382	AC1	2405
		MC1	
Secondary Array 10 HDDs	7382	AC1	2406
		MC1	
Secondary Array 11 HDDs	7382	AC1	2407
		MC1	
Secondary Array 12 HDDs	7382	AC1	2408
		MC1	
Secondary Array 13 HDDs	7382	AC1	2409
		MC1	
Secondary Array 14 HDDs	7382	AC1	2410
		MC1	
Enable selection of Solid State Drives for Secondary Array	7382	AC1	2498
		MC1	

Enable selection of Solid State Drives for Primary Array	7382	AC1	2499
		MC1	
PRO/1000 PF Server Adapter	7382	AC1	2975
		MC1	
NetXtreme II 1000 Express Dual Port Ethernet Adapter	7382	AC1	2995
		MC1	
Rack 01	7382	AC1	3101
		MC1	
Rack 02	7382	AC1	3102
		MC1	
Rack 03	7382	AC1	3103
		MC1	
Rack 04	7382	AC1	3104
		MC1	
Rack 05	7382	AC1	3105
		MC1	
Rack 06	7382	AC1	3106
		MC1	
Rack 07	7382	AC1	3107
		MC1	
Rack 08	7382	AC1	3108
		MC1	
Rack 09	7382	AC1	3109
		MC1	
Rack 10	7382	AC1	3110
		MC1	
Rack 11	7382	AC1	3111
		MC1	
Rack 12	7382	AC1	3112
		MC1	
Rack 13	7382	AC1	3113
		MC1	
Rack 14	7382	AC1	3114
		MC1	
Rack 15	7382	AC1	3115
		MC1	
Rack 16	7382	AC1	3116
		MC1	
Rack 17	7382	AC1	3117
		MC1	
Rack 18	7382	AC1	3118
		MC1	
Rack 19	7382	AC1	3119
		MC1	
Rack 20	7382	AC1	3120
		MC1	
Rack 21	7382	AC1	3121
		MC1	
Rack 22	7382	AC1	3122
		MC1	
Rack 23	7382	AC1	3123
		MC1	
Rack 24	7382	AC1	3124
		MC1	
Rack 25	7382	AC1	3125
		MC1	
Rack 26	7382	AC1	3126
		MC1	
Rack 27	7382	AC1	3127
		MC1	
Rack 28	7382	AC1	3128
		MC1	
Rack 29	7382	AC1	3129
		MC1	
Rack 30	7382	AC1	3130
		MC1	
Rack 31	7382	AC1	3131
		MC1	
Rack 32	7382	AC1	3132
		MC1	
Rack 33	7382	AC1	3133
		MC1	

Rack 34	7382	AC1	3134
		MC1	
Rack 35	7382	AC1	3135
		MC1	
Rack 36	7382	AC1	3136
		MC1	
Rack 37	7382	AC1	3137
		MC1	
Rack 38	7382	AC1	3138
		MC1	
Rack 39	7382	AC1	3139
		MC1	
Rack 40	7382	AC1	3140
		MC1	
Rack 41	7382	AC1	3141
		MC1	
Rack 42	7382	AC1	3142
		MC1	
Rack 43	7382	AC1	3143
		MC1	
Rack 44	7382	AC1	3144
		MC1	
Rack 45	7382	AC1	3145
		MC1	
Rack 46	7382	AC1	3146
		MC1	
Rack 47	7382	AC1	3147
		MC1	
Rack 48	7382	AC1	3148
		MC1	
Rack 49	7382	AC1	3149
		MC1	
Rack 50	7382	AC1	3150
		MC1	
Rack 51	7382	AC1	3151
		MC1	
Rack 52	7382	AC1	3152
		MC1	
Rack 53	7382	AC1	3153
		MC1	
Rack 54	7382	AC1	3154
		MC1	
Rack 55	7382	AC1	3155
		MC1	
Rack 56	7382	AC1	3156
		MC1	
Rack 57	7382	AC1	3157
		MC1	
Rack 58	7382	AC1	3158
		MC1	
Rack 59	7382	AC1	3159
		MC1	
Rack 60	7382	AC1	3160
		MC1	
Rack 61	7382	AC1	3161
		MC1	
Rack 62	7382	AC1	3162
		MC1	
Rack 63	7382	AC1	3163
		MC1	
Rack 64	7382	AC1	3164
		MC1	
Rack location U01	7382	AC1	3201
		MC1	
Rack location U02	7382	AC1	3202
		MC1	
Rack location U03	7382	AC1	3203
		MC1	
Rack location U04	7382	AC1	3204
		MC1	
Rack location U05	7382	AC1	3205
		MC1	
Rack location U06	7382	AC1	3206
		MC1	

Rack location U07	7382	AC1	3207
		MC1	
Rack location U08	7382	AC1	3208
		MC1	
Rack location U09	7382	AC1	3209
		MC1	
Rack location U10	7382	AC1	3210
		MC1	
Rack location U11	7382	AC1	3211
		MC1	
Rack location U12	7382	AC1	3212
		MC1	
Rack location U13	7382	AC1	3213
		MC1	
Rack location U14	7382	AC1	3214
		MC1	
Rack location U15	7382	AC1	3215
		MC1	
Rack location U16	7382	AC1	3216
		MC1	
Rack location U17	7382	AC1	3217
		MC1	
Rack location U18	7382	AC1	3218
		MC1	
Rack location U19	7382	AC1	3219
		MC1	
Rack location U20	7382	AC1	3220
		MC1	
Rack location U21	7382	AC1	3221
		MC1	
Rack location U22	7382	AC1	3222
		MC1	
Rack location U23	7382	AC1	3223
		MC1	
Rack location U24	7382	AC1	3224
		MC1	
Rack location U25	7382	AC1	3225
		MC1	
Rack location U26	7382	AC1	3226
		MC1	
Rack location U27	7382	AC1	3227
		MC1	
Rack location U28	7382	AC1	3228
		MC1	
Rack location U29	7382	AC1	3229
		MC1	
Rack location U30	7382	AC1	3230
		MC1	
Rack location U31	7382	AC1	3231
		MC1	
Rack location U32	7382	AC1	3232
		MC1	
Rack location U33	7382	AC1	3233
		MC1	
Rack location U34	7382	AC1	3234
		MC1	
Rack location U35	7382	AC1	3235
		MC1	
Rack location U36	7382	AC1	3236
		MC1	
Rack location U37	7382	AC1	3237
		MC1	
Rack location U38	7382	AC1	3238
		MC1	
Rack location U39	7382	AC1	3239
		MC1	
Rack location U40	7382	AC1	3240
		MC1	
Rack location U41	7382	AC1	3241
		MC1	
Rack location U42	7382	AC1	3242
		MC1	
Rack location U43	7382	AC1	3243
		MC1	

Rack location U44	7382	AC1	3244
		MC1	
Rack location U45	7382	AC1	3245
		MC1	
Rack location U46	7382	AC1	3246
		MC1	
Rack location U47	7382	AC1	3247
		MC1	
QLogic 4Gb FC Single-Port PCIe HBA for IBM System x	7382	AC1	3567
		MC1	
QLogic 4Gb FC Dual-Port PCIe HBA for IBM System x	7382	AC1	3568
		MC1	
QLogic 8Gb FC Single-port HBA for IBM System x	7382	AC1	3578
		MC1	
QLogic 8Gb FC Dual-port HBA for IBM System x	7382	AC1	3579
		MC1	
Emulex 8Gb FC Single-port HBA for IBM System x	7382	AC1	3580
		MC1	
Emulex 8Gb FC Dual-port HBA for IBM System x	7382	AC1	3581
		MC1	
Brocade 8Gb FC Single-port HBA for IBM System x	7382	AC1	3589
		MC1	
Brocade 8Gb FC Dual-port HBA for IBM System x	7382	AC1	3591
		MC1	
IBM 3M SAS Cable	7382	AC1	3707
		MC1	
IBM 1M SAS Cable	7382	AC1	3708
		MC1	
IBM Single Cable USB Conversion Option (UCO)	7382	AC1	3757
		MC1	
IBM 6Gb Performance Optimized HBA	7382	AC1	3876
		MC1	
Brocade 4Gb FC Single-port HBA for IBM System x	7382	AC1	3885
		MC1	
Brocade 4Gb FC Dual-port HBA for IBM System x	7382	AC1	3886
		MC1	
Half-High SATA DVD-ROM	7382	AC1	4154
		MC1	
IBM HH Multiburner DVD	7382	AC1	4155
		MC1	
IBM Half High LTO™ Gen 5 Internal SAS Tape Drive	7382	AC1	5345
		MC1	
IBM Half High LTO Gen 3 SAS Tape Drive	7382	AC1	5393
		MC1	
IBM DDS Gen 6 USB Tape Drive	7382	AC1	5395
		MC1	
IBM Half-high LTO Gen 4 SAS Tape Drive	7382	AC1	5397
		MC1	
IBM RDX 320GB Cartridge	7382	AC1	5708
		MC1	
IBM RDX 500GB Cartridge	7382	AC1	5709
		MC1	
IBM DDS Generation 5 USB Tape Drive	7382	AC1	5711
		MC1	
QLogic 10Gb CNA for IBM System x	7382	AC1	5751
		MC1	
NetXtreme II 1000 Express Quad Port Ethernet Adapter	7382	AC1	5766
		MC1	
Intel Ethernet Dual Port Server Adapter I340-T2 for IBM System x	7382	AC1	5767
		MC1	
Intel Ethernet Quad Port Server Adapter I340-T4 for IBM System x	7382	AC1	5768
		MC1	
Select Storage devices - no IBM-configured RAID required	7382	AC1	5977
		MC1	
Select Storage devices - IBM-configured RAID	7382	AC1	5978
		MC1	
IBM 6Gb SAS HBA	7382	AC1	5982
		MC1	

1.5m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable	7382	AC1 MC1	6201
2.8m, 10A/100-250V, C13 to IEC 320-C20 Rack Power Cable	7382	AC1 MC1	6204
Line cord - 4.3M, 10A/125V, C13 to NEMA 5-15P (US)	7382	AC1 MC1	6207
4.3m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable	7382	AC1 MC1	6263
2.8m, 10A/120V, C13 to NEMA 5-15P (US) Line Cord	7382	AC1 MC1	6313
Line cord - 2.8m, 10A/250V, C13 to NEMA 6-15P (US)	7382	AC1 MC1	6372
2.8m, 13A/120V, C13 to NEMA 5-15P (US) Line Cord	7382	AC1 MC1	6401
Primary Array 2 HDDs	7382	AC1 MC1	7008
Primary Array 3 HDDs	7382	AC1 MC1	7009
Primary Array 4 HDDs	7382	AC1 MC1	7010
Primary Array 5 HDDs	7382	AC1 MC1	7011
Primary Array 6 HDDs	7382	AC1 MC1	7012
Primary Array 7 HDDs	7382	AC1 MC1	7013
Primary Array 8 HDDs	7382	AC1 MC1	7014
Secondary Array 2 HDDs	7382	AC1 MC1	7015
Secondary Array 3 HDDs	7382	AC1 MC1	7016
Secondary Array 4 HDDs	7382	AC1 MC1	7017
Secondary Array 5 HDDs	7382	AC1 MC1	7057
Secondary Array 6 HDDs	7382	AC1 MC1	7058
Secondary Array 7 HDDs	7382	AC1 MC1	7059
Secondary Array 8 HDDs	7382	AC1 MC1	7060
"China Warranty"	7382	AC1 MC1	7599
Primary Array 9 HDDs	7382	AC1 MC1	7664
Grouped Product	7382	AC1 MC1	7830
Customer Solution Center Services	7382	AC1 MC1	7831
e1350 Special Bid Solution Component	7382	AC1 MC1	7929
No HDD Selected	7382	AC1 MC1	8026
Consolidate Shipment	7382	AC1 MC1	8031
e1350 Solution Component	7382	AC1 MC1	8034
Compute Node	7382	AC1 MC1	8036
Management Node	7382	AC1 MC1	8037
Storage Node	7382	AC1 MC1	8038
TAA Compliant Order	7382	AC1 MC1	8067
General Racking Solution	7382	AC1 MC1	8072

No SATA HDD Selected	7382	AC1 MC1	8080
No 2.5" SAS HDD Selected	7382	AC1 MC1	8081
No 3.5" SAS HDD Selected	7382	AC1 MC1	8082
No Pointing Device Selected	7382	AC1 MC1	8084
No Keyboard Selected	7382	AC1 MC1	8085
No Publications Selected	7382	AC1 MC1	8086
4GB (1x4GB, 2Rx8, 1.35V) PC3L-10600 CL9 ECC DDR3 1333MHZ LP UDIMM	7382	AC1 MC1	8648
IBM Keyboard w/ Int. Pointing Device USB - US English 103P RoHS	7382	AC1 MC1	A31J
IBM Pref. Pro Keyboard USB - US English 103P RoHS	7382	AC1 MC1	A32E
IBM 2 Button Optical wheel Mouse - Black - USB	7382	AC1 MC1	8912
8GB (1x8GB, 2Rx4, 1.35V) PC3L-10600 CL9 ECC DDR3 1333MHZ LP RDIMM	7382	AC1 MC1	8923
16GB (1x16GB, 4Rx4, 1.35V) PC3L-8500 CL7 ECC DDR3 1066MHZ LP RDIMM	7382	AC1 MC1	8939
2GB (1x2GB, 1Rx8, 1.35V) PC3L-10600 CL9 ECC DDR3 1333MHZ LP RDIMM	7382	AC1 MC1	8940
4GB (1x4GB, 1Rx4, 1.35V) PC3L-10600 CL9 ECC DDR3 1333MHZ LP RDIMM	7382	AC1 MC1	8941
4GB (1x4GB, 2Rx8, 1.35V) PC3L-10600 CL9 ECC DDR3 1333MHZ LP RDIMM	7382	AC1 MC1	8942
Integrate in manufacturing	7382	AC1 MC1	8971
Ship Uninstalled (Safety)	7382	AC1 MC1	8972
Hot Spare	7382	AC1 MC1	9013
Memory Sparing	7382	AC1 MC1	9016
Enable Memory Mirroring	7382	AC1 MC1	9017
Storage Subsystem ID 01	7382	AC1 MC1	9170
Storage Subsystem ID 02	7382	AC1 MC1	9171
Storage Subsystem ID 03	7382	AC1 MC1	9172
Storage Subsystem ID 04	7382	AC1 MC1	9173
Storage Subsystem ID 05	7382	AC1 MC1	9174
Storage Subsystem ID 06	7382	AC1 MC1	9175
Storage Subsystem ID 07	7382	AC1 MC1	9176
Storage Subsystem ID 08	7382	AC1 MC1	9177
Storage Subsystem ID 09	7382	AC1 MC1	9178
Storage Subsystem ID 10	7382	AC1 MC1	9179
Storage Subsystem ID 11	7382	AC1 MC1	9180
Storage Subsystem ID 12	7382	AC1 MC1	9181

Storage Subsystem ID 13	7382	AC1	9182
		MC1	
Storage Subsystem ID 14	7382	AC1	9183
		MC1	
Storage Subsystem ID 15	7382	AC1	9184
		MC1	
Storage Subsystem ID 16	7382	AC1	9185
		MC1	
Storage Subsystem ID 17	7382	AC1	9186
		MC1	
Storage Subsystem ID 18	7382	AC1	9187
		MC1	
Storage Subsystem ID 19	7382	AC1	9188
		MC1	
Storage Subsystem ID 20	7382	AC1	9189
		MC1	
Preload Specify	7382	AC1	9200
		MC1	
Windows Specify	7382	MC1	9201
Red Hat Specify	7382	AC1	9202
SuSE Specify	7382	AC1	9203
Drop-in-the-Box Specify	7382	AC1	9205
		MC1	
No Preload Specify	7382	AC1	9206
		MC1	
VMWare Specify	7382	AC1	9207
		MC1	
Preload by Hardware Feature Specify	7382	AC1	9220
		MC1	
Internal split SAS cable	7382	AC1	9265
		MC1	
1 meter internal USB cable	7382	AC1	9266
		MC1	
Primary Array 10 HDDs	7382	AC1	9714
		MC1	
Primary Array 11 HDDs	7382	AC1	9715
		MC1	
2GB (1x2GB, 1Rx8, 1.35V) PC3L-10600 ECC DDR3 1333MHZ LP UDIMM	7382	AC1	A0QS
		MC1	
Software Application (Not Preinstalled) Specify	7382	AC1	A0UF
		MC1	
NVIDIA Quadro 600	7382	AC1	A13K
		MC1	
Broadcom NetXtreme II Dual Port 10GBaseT Adapter for IBM System x	7382	AC1	A18Y
		MC1	
IBM 1TB 7.2K 6Gbps NL SATA 2.5" SFF HS HDD	7382	AC1	A1AV
		MC1	
ServerRAID M5100 Series 512MB Cache/RAID 5 Upgrade for IBM System x	7382	AC1	A1J3
		MC1	
ServerRAID M5100 Series 512MB Flash/RAID 5 Upgrade for IBM System x	7382	AC1	A1J4
		MC1	
Mellanox ConnectX-2 Dual Port 10GbE Adapter for IBM System x	7382	AC1	A1M4
		MC1	
IBM Integrated Management Module Advanced Upgrade	7382	AC1	A1ML
		MC1	
ServerRAID M1115 SAS/SATA Controller for IBM System x	7382	AC1	A1MZ
		MC1	
IBM 250GB 7.2K 6Gbps NL SATA 2.5" SFF HS HDD	7382	AC1	A1NX
		MC1	
IBM 500GB 7.2K 6Gbps NL SATA 2.5" SFF HS HDD	7382	AC1	A1NZ
		MC1	
IBM 1TB 7.2K 6Gbps NL SAS 2.5" SFF HS HDD	7382	AC1	A1P3
		MC1	
16GB (1x16GB, 2Rx4, 1.35V) PC3L-10600 CL9 ECC DDR3 1333MHZ LP RDIMM	7382	AC1	A1QT
		MC1	
NVIDIA Quadro 2000	7382	AC1	A1QU
		MC1	

IBM RDX 1TB Cartridge	7382	AC1 MC1	A1VL
ServerRAID M5120 SAS/SATA Controller for IBM System x	7382	AC1 MC1	A1WX
ServerRAID M5100 Series 1GB Flash/RAID 5 Upgrade for IBM System x	7382	AC1 MC1	A1WY
ServerRAID M1100 Series Zero Cache/RAID 5 Upgrade for IBM System x	7382	AC1 MC1	A1X1
ServerRAID M5100 Series Zero Cache/RAID 5 Upgrade for IBM System x	7382	AC1 MC1	A1X2
ServerRAID M5100 Series RAID 6 Upgrade for IBM System x	7382	AC1 MC1	A1X3
3U bracket for low profile-internal-storage adapters	7382	AC1 MC1	A1X6
ServerRAID M5100 Series 425mm Flash Power Module Cable	7382	AC1 MC1	A1X9
ServerRAID H1110 SAS/SATA Controller for IBM System x	7382	AC1 MC1	A1XL
ServerRAID M5100 Series Battery Kit for IBM System x	7382	AC1 MC1	A22E
IBM 1TB 7.2K 6Gbps NL SATA 3.5" G2HS HDD	7382	AC1 MC1	A22P
IBM 3TB 7.2K 6Gbps NL SATA 3.5" G2HS HDD	7382	AC1 MC1	A22S
IBM 2TB 7.2K 6Gbps NL SATA 3.5" G2HS HDD	7382	AC1 MC1	A22T
IBM 500GB 7.2K 6Gbps NL SATA 3.5" G2SS HDD	7382	AC1 MC1	A22U
IBM 3TB 7.2K 6Gbps NL SATA 3.5" G2SS HDD	7382	AC1 MC1	A22V
IBM 2TB 7.2K 6Gbps NL SATA 3.5" G2SS HDD	7382	AC1 MC1	A22W
IBM 1TB 7.2K 6Gbps NL SATA 3.5" G2SS HDD	7382	AC1 MC1	A22X
IBM 500GB 7.2K 6Gbps NL SATA 3.5" G2HS HDD	7382	AC1 MC1	A22Y
4GB (1x4GB, 2Rx8, 1.5V) PC3-12800 CL11 ECC DDR3 1600MHZ LP RDIMM	7382	AC1 MC1	A24L
IBM 1TB 7.2K 6Gbps NL SAS 3.5" G2HS HDD	7382	AC1 MC1	A26M
IBM 900GB 10K 6Gbps SAS 2.5" SFF HS HDD	7382	AC1 MC1	A282
IBM 300GB 15K 6Gbps SAS 2.5" SFF HS HDD	7382	AC1 MC1	A283
4GB (1x4GB, 1Rx4, 1.5V) PC3-12800 CL11 ECC DDR3 1600MHZ LP RDIMM	7382	AC1 MC1	A28Z
8GB (1x8GB, 2Rx4, 1.5V) PC3-12800 CL11 ECC DDR3 1600MHZ LP RDIMM	7382	AC1 MC1	A292
Label KC	7382	AC1 MC1	A2CM
Intel x520 Dual Port 10GbE SFP+ Adapter for IBM System x	7382	AC1 MC1	A2EC
Intel X540-T2 Dual Port 10GBaseT Adapter for IBM System x	7382	AC1 MC1	A2ED
IBM 200GB SATA 2.5" MLC HS SSD	7382	AC1 MC1	A2FN
IBM Blank USB Memory Key for VMware ESXi Downloads	7382	AC1 MC1	A2G0
Intel Ethernet Adapter Powerville - 4 port upgrade	7382	AC1 MC1	A2GT

Configuration ID 01	7382	AC1 MC1	A2HP
Configuration ID 02	7382	AC1 MC1	A2HQ
Configuration ID 03	7382	AC1 MC1	A2HR
Configuration ID 04	7382	AC1 MC1	A2HS
Configuration ID 05	7382	AC1 MC1	A2HT
Configuration ID 06	7382	AC1 MC1	A2HU
Configuration ID 07	7382	AC1 MC1	A2HV
Configuration ID 08	7382	AC1 MC1	A2HW
Configuration ID 09	7382	AC1 MC1	A2HX
Configuration ID 10	7382	AC1 MC1	A2HY
Configuration ID 11	7382	AC1 MC1	A2HZ
Configuration ID 12	7382	AC1 MC1	A2J0
Configuration ID 13	7382	AC1 MC1	A2J1
Configuration ID 14	7382	AC1 MC1	A2J2
Configuration ID 15	7382	AC1 MC1	A2J3
Configuration ID 16	7382	AC1 MC1	A2J4
Configuration ID 17	7382	AC1 MC1	A2J5
Configuration ID 18	7382	AC1 MC1	A2J6
Configuration ID 19	7382	AC1 MC1	A2J7
Configuration ID 20	7382	AC1 MC1	A2J8
Configuration ID 21	7382	AC1 MC1	A2J9
Configuration ID 22	7382	AC1 MC1	A2JA
Configuration ID 23	7382	AC1 MC1	A2JB
Configuration ID 24	7382	AC1 MC1	A2JC
Configuration ID 25	7382	AC1 MC1	A2JD
Configuration ID 26	7382	AC1 MC1	A2JE
Configuration ID 27	7382	AC1 MC1	A2JF
Configuration ID 28	7382	AC1 MC1	A2JG
Configuration ID 29	7382	AC1 MC1	A2JH
Configuration ID 30	7382	AC1 MC1	A2JJ
Configuration ID 31	7382	AC1 MC1	A2JK
Configuration ID 32	7382	AC1 MC1	A2JL
Configuration ID 33	7382	AC1 MC1	A2JM
Configuration ID 34	7382	AC1 MC1	A2JN
Configuration ID 35	7382	AC1 MC1	A2JP
Configuration ID 36	7382	AC1 MC1	A2JQ
Configuration ID 37	7382	AC1 MC1	A2JR

Configuration ID 38	7382	AC1 MC1	A2JS
Configuration ID 39	7382	AC1 MC1	A2JT
Configuration ID 40	7382	AC1 MC1	A2JU
Configuration ID 41	7382	AC1 MC1	A2JV
Configuration ID 42	7382	AC1 MC1	A2JW
Controller 01	7382	AC1 MC1	A2JX
Controller 02	7382	AC1 MC1	A2JY
Controller 03	7382	AC1 MC1	A2JZ
Controller 04	7382	AC1 MC1	A2K0
Controller 05	7382	AC1 MC1	A2K1
Primary Array - RAID 0	7382	AC1 MC1	A2K6
Primary Array - RAID 1	7382	AC1 MC1	A2K7
Primary Array - RAID 1E	7382	AC1 MC1	A2K8
Primary Array - RAID 5	7382	AC1 MC1	A2K9
Primary Array - RAID 6	7382	AC1 MC1	A2KA
Primary Array - RAID 10	7382	AC1 MC1	A2KB
Secondary Array - RAID 0	7382	AC1 MC1	A2KF
Secondary Array - RAID 1	7382	AC1 MC1	A2KG
Secondary Array - RAID 1E	7382	AC1 MC1	A2KH
Secondary Array - RAID 5	7382	AC1 MC1	A2KJ
Secondary Array - RAID 6	7382	AC1 MC1	A2KK
Secondary Array - RAID 10	7382	AC1 MC1	A2KL
ServerRAID M5100 Series SSD Performance Key for IBM System x	7382	AC1 MC1	A2MC
ServerRAID M5100 Series SSD Caching Enabler for IBM System x	7382	AC1 MC1	A2MD
IBM 3TB 7.2K 6Gbps NL SAS 3.5" G2HS HDD	7382	AC1 MC1	A2R2
Intel Xeon Processor E5-2403 4C 1.8GHz 10MB Cache 1066MHz 80W	7382	AC1 MC1	A2R4
Intel Xeon Processor E5-2407 4C 2.2GHz 10MB Cache 1066MHz 80W	7382	AC1 MC1	A2R5
Intel Xeon Processor E5-2420 6C 1.9GHz 15MB Cache 1333MHz 95W	7382	AC1 MC1	A2R6
Intel Xeon Processor E5-2430 6C 2.2GHz 15MB Cache 1333MHz 95W	7382	AC1 MC1	A2R7
Intel Xeon Processor E5-2440 6C 2.4GHz 15MB Cache 1333MHz 95W	7382	AC1 MC1	A2R8
Intel Pentium™ Processor 1403 2C 2.6GHz 5MB Cache 1066MHz 80W	7382	AC1 MC1	A2R9
Intel Pentium Processor 1407 2C 2.8GHz 5MB Cache 1066MHz 80W	7382	AC1 MC1	A2RA

Intel Xeon Processor E5-2430L 6C 2.0GHz 15MB Cache 1333MHz 60W	7382	AC1 MC1	A2RB
Intel Xeon Processor E5-2450L 8C 1.8GHz 20MB Cache 1600MHz 70W	7382	AC1 MC1	A2RC
Intel Xeon Processor E5-2450 8C 2.1GHz 20MB Cache 1600MHz 95W	7382	AC1 MC1	A2RD
Intel Xeon Processor E5-2470 8C 2.3GHz 20MB Cache 1600MHz 95W	7382	AC1 MC1	A2RE
IBM System x3300 L5 Chassis base	7382	AC1 MC1	A2S7
IBM 460W Fixed PSU	7382	AC1 MC1	A2S8
IBM 550W Redundant PSU	7382	AC1 MC1	A2S9
IBM 750W Redundant PSU	7382	AC1 MC1	A2SA
IBM System x3300 3.5" HS Kit for HW/SW RAID	7382	AC1 MC1	A2SC
IBM System x3300 1st 2.5" HS Kit	7382	AC1 MC1	A2SE
Redundant Power Kit	7382	AC1 MC1	A2SG
PCI-X Riser Kit	7382	AC1 MC1	A2SH
3.5" Bracket for 2nd HDD Cage	7382	AC1 MC1	A2SL
Backplane signal Y cable for Norton(3.5")	7382	AC1 MC1	A2SM
BIOS GBM	7382	AC1 MC1	A2SN
Backplane signal Y cable for Raptor(2.5")	7382	AC1 MC1	A2SP
HDD BP POWER 16 to 14 ( RAID management Y cable)	7382	AC1 MC1	A2SQ
3.5" HS HDD Filler	7382	AC1 MC1	A2SR
2.5" HS HDD Filler	7382	AC1 MC1	A2SS
PWR cage Filler	7382	AC1 MC1	A2ST
Agency Label	7382	AC1 MC1	A2SU
Label GBM	7382	AC1 MC1	A2SV
IBM System x3300 Planar	7382	AC1 MC1	A2SW
IBM System x3300 Packaging - Tower model	7382	AC1 MC1	A2SX
IBM System x3300 Packaging - Tower to Rack model	7382	AC1 MC1	A2SY
System Documentation and Software-US English	7382	AC1 MC1	A2TC
IBM 2TB 7.2K 6Gbps NL SAS 3.5" G2HS HDD	7382	AC1 MC1	A2U0
Emulex Dual Port 10GbE SFP+ VFA III for IBM System x	7382	AC1 MC1	A2U1
Emulex VFA III FCoE/iSCSI License for IBM System x (FoD)	7382	AC1 MC1	A2U2
IBM 256GB SATA 2.5" MLC HS Entry SSD	7382	AC1 MC1	A2U3
IBM 128GB SATA 2.5" MLC HS Entry SSD	7382	AC1 MC1	A2U4
16GB (1x16GB, 2Rx4, 1.5V) PC3-12800 CL11 ECC DDR3 1600MHZ LP RDIMM	7382	AC1 MC1	A2U5

IBM RDX 3 Internal USB Drive	7382	AC1 MC1	A2U7
Emulex Dual Port 10GbE SFP+ Integrated VFA III for IBM System x	7382	MC1	A2UN
Broadcom NetXtreme I Quad Port GbE Adapter for IBM System x	7382	AC1 MC1	A2V3
Broadcom NetXtreme I Dual Port GbE Adapter for IBM System x	7382	AC1 MC1	A2V4
8-Pack ServerRAID C105 Controller Enabler for IBM System x	7382	AC1 MC1	A2V7
ServerRAID C105 for IBM System x	7382	AC1 MC1	A2VA
IBM USB Memory Key for VMware ESXi 5.0	7382	AC1 MC1	A2VC
Emulex 16Gb FC Single-port HBA for IBM System x	7382	AC1 MC1	A2W5
Emulex 16Gb FC Dual-port HBA for IBM System x	7382	AC1 MC1	A2W6
No Power Cord Validation	7382	AC1 MC1	A2X0
IBM 146GB 15K 6Gbps SAS 2.5" SFF G2HS HDD	7382	AC1 MC1	A2XB
IBM 300GB 10K 6Gbps SAS 2.5" SFF G2HS HDD	7382	AC1 MC1	A2XC
IBM 600GB 10K 6Gbps SAS 2.5" SFF G2HS HDD	7382	AC1 MC1	A2XD
IBM 500GB 7.2K 6Gbps NL SAS 2.5" SFF G2HS HDD	7382	AC1 MC1	A2XE
IBM 300GB 10K 6Gbps SAS 2.5" SFF G2HS SED	7382	AC1 MC1	A2XF
Brocade 16Gb FC Single-port HBA for IBM System x	7382	AC1 MC1	A2XU
Brocade 16Gb FC Dual-port HBA for IBM System x	7382	AC1 MC1	A2XV
IBM 146GB 15K 6Gbps SAS 2.5" SFF G2HS SED	7382	AC1 MC1	A2ZK
ServerRAID M5110 SAS/SATA Controller for IBM System x	7382	AC1 MC1	A347
IBM USB Memory Key for VMware ESXi 5.0 Update1	7382	AC1 MC1	A383
Intel Xeon Processor E5-1410 4C 2.8GHz 10MB Cache 1333MHz 80W	7382	AC1 MC1	A3AJ
IBM 550W Redundant PSU (Optional)	7382	AC1 MC1	A3DQ
IBM 750W Redundant PSU (Optional)	7382	AC1 MC1	A3DR
Essential Package	7382	AC1 MC1	A3E2
Enhanced Package	7382	AC1 MC1	A3E3
Elite Package	7382	AC1 MC1	A3E4
Essential Package	7382	AC1 MC1	A3E5
Enhanced Package	7382	AC1 MC1	A3E6
Elite Package	7382	AC1 MC1	A3E7
2nd CPU FAN	7382	AC1 MC1	A3F4
14 pin to 16 pin interposer cable for fixed PSU	7382	AC1 MC1	A3F7

The following are features already announced for the 7382 machine type:

Description	MT	Model	Feature
7382-AC1	7382	AC1	
7382-MC1	7382	MC1	
Addl Intel Xeon Processor E5-2403 4C 1.8GHz 10MB 80W Upgrade Kit	7382	AC1 MC1	A2RF
Addl Intel Xeon Processor E5-2407 4C 2.2GHz 10MB 80W Upgrade Kit	7382	AC1 MC1	A2RG
Addl Intel Xeon Processor E5-2420 6C 1.9GHz 15MB 95W Upgrade Kit	7382	AC1 MC1	A2RH
Addl Intel Xeon Processor E5-2430 6C 2.2GHz 15MB 95W Upgrade Kit	7382	AC1 MC1	A2RJ
Addl Intel Xeon Processor E5-2440 6C 2.4GHz 15MB 95W Upgrade Kit	7382	AC1 MC1	A2RK
Addl Intel Xeon Processor E5-2430L 6C 2.0GHz 15MB 60W Upgrade Kit	7382	AC1 MC1	A2RL
Addl Intel Xeon Processor E5-2450L 8C 1.8GHz 20MB 70W Upgrade Kit	7382	AC1 MC1	A2RM
Addl Intel Xeon Processor E5-2450 8C 2.1GHz 20MB 95W Upgrade Kit	7382	AC1 MC1	A2RN
Addl Intel Xeon Processor E5-2470 8C 2.3GHz 20MB 95W Upgrade Kit	7382	AC1 MC1	A2RP
IBM System x3300 Simple-Swap SATA Kit 4x3.5"	7382	AC1 MC1	A2SB
IBM System x3300 2nd 2.5" HS Upgrade Kit	7382	AC1 MC1	A2SF
Redundant System FAN	7382	AC1 MC1	A2SJ
Tower to Rack Kit	7382	AC1 MC1	A2SK

The following are features already announced for the 3331 machine type:

Description	MT	Model	Feature
Addl Intel Xeon Processor E5-2403 4C 1.8GHz 10MB 80W Upgrade Kit	3331	HC1	A2RF
Addl Intel Xeon Processor E5-2407 4C 2.2GHz 10MB 80W Upgrade Kit	3331	HC1	A2RG
Addl Intel Xeon Processor E5-2420 6C 1.9GHz 15MB 95W Upgrade Kit	3331	HC1	A2RH
Addl Intel Xeon Processor E5-2430 6C 2.2GHz 15MB 95W Upgrade Kit	3331	HC1	A2RJ
Addl Intel Xeon Processor E5-2440 6C 2.4GHz 15MB 95W Upgrade Kit	3331	HC1	A2RK
Addl Intel Xeon Processor E5-2430L 6C 2.0GHz 15MB 60W Upgrade Kit	3331	HC1	A2RL
Addl Intel Xeon Processor E5-2450L 8C 1.8GHz 20MB 70W Upgrade Kit	3331	HC1	A2RM
Addl Intel Xeon Processor E5-2450 8C 2.1GHz 20MB 95W Upgrade Kit	3331	HC1	A2RN
Addl Intel Xeon Processor E5-2470 8C 2.3GHz 20MB 95W Upgrade Kit	3331	HC1	A2RP
IBM System x3300 Simple-Swap SATA Kit 4x3.5"	3331	HC1	A2SB
IBM System x3300 2nd 2.5" HS Upgrade Kit	3331	HC1	A2SF
Redundant System FAN	3331	HC1	A2SJ
Tower to Rack Kit	3331	HC1	A2SK
IBM System x3300 3.5" HS Kit for HW/SW RAID	3331	HC1	A3E0

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
4289	7382-AC1 Routing Code
4290	7382-MC1 Routing Code

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### Model conversions

None

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### Feature conversions

None

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### Business Partner information

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

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=112-130>

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## Publications

The following publications and CD-ROMs are shipped with the x3300 M4 servers:

- The *System x3300 M4 Installation and Service Guide* contains an introduction to the computer, installation and setup, installing options, reference information, and problem determination. The installation and service guide has easy-to-use text and pictorials to enable you to quickly set up the System x3300 M4 server.
- Publications CD

**Note:** Software versions, features, and functions shipped with these systems may change as new releases become available or may be discontinued at any time.

The *x3300 M4 Installation and Service Guide*

<http://publib14.boulder.ibm.com/infocenter/systems>

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### IBM Publications Center Portal

<http://www.ibm.com/shop/publications/order>

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For details on education offerings related to specific products, visit

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### **System x and BladeCenter support services**

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#### ***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

#### The x3300 M4

**Note:** US, LA, CAN x=U Brazil x=P Argentina x=T EMEA x=G

	7382-A2x	7382-B2x	7382-C2x
Processor	Xeon 4C E5-2403	Xeon 4C E5-2407	Xeon 6C E5-2420
Internal speed	1.8 GHZ	2.2 GHZ	1.9 GHZ
External speed	6.4 GTS	6.4 GTS	7.2 GTS
Number standard	1	1	1
Maximum	2	2	2
L3 cache (full-speed)	10 MB	10 MB	15 MB
Memory (PC3-10600- DDR3-1333)	2 GB ECC 1 x 2 GB 2Gb, 1Rx8, 1.35V No Chipkill	4 GB ECC 1 x 4 GB 4Gb,1Rx4, 1.35V Chipkill	4 GB ECC 1 x 4 GB 4Gb,1Rx4 1.35V Chipkill
DIMM sockets standard	6	6	6
DIMM sockets maximum	12	12	12
Capacity	384 GB <sup>10</sup>	384 GB <sup>10</sup>	384 GB <sup>10</sup>
Video memory	SVGA 16 MB	SVGA 16 MB	SVGA 16 MB
SAS/SATA RAID controller	C105	C105	H1110
Channels	8	8	4
Connector internal	2	2	1
Connector external	0	0	0
HDD	open-bay	open bay	open bay
Support	3.5-inch HDD	3.5-inch HDD	3.5-inch HDD
Total bays	10	10	10
5.25-in	2	2	2
Hot-swap	8	8	8
Internal capacity	8.0 TB <sup>7</sup>	8.0 TB <sup>7</sup>	8.0 TB <sup>7</sup>
Bays available	6	6	6
5.25 in	2	2	2
Hot-swap	0 <sup>7</sup>	4 <sup>7</sup>	4 <sup>7</sup>
Simple-swap	4	0	0
Total PCI slots	6	6	6 <sup>13</sup>
PCI-E 3.0 x16	1	1	1
PCI-E 3.0 x8	3	3	3 <sup>14</sup>
PCI-E Gen2 x4	1	1	1 <sup>15</sup>
PCI-E Gen2 x8	1	1	1
Slots available	5	5	5
PCI-E Gen3 x8	2	2	2
PCI-E Gen3 x16	1	1	1
PCI-E Gen2 x4	1	1	1
PCI-E Gen2 x8	1	1	1
Integrated management	Standard <sup>11</sup>	Standard <sup>11</sup>	Standard <sup>11</sup>
Ethernet controllers	4x1GB standard	4x1GB standard	4x1GB standard
Half-height SATA DVD	1	1	1
Power supply	460 W <sup>12</sup>	460 W <sup>12</sup>	460 W <sup>12</sup>
Number standard	1	1	1
Hot-swap	No	No	No
Redundant power	None	None	None
	7382-D2x	7382-D4x	7382-F2x
Processor	Xeon 6C E5-2430	Xeon 6C E5-2430	Xeon 6C E5-2440
Internal speed	2.2 GHZ	2.2 GHZ	2.4 GHZ
External speed	7.2 GTS	7.2 GTS	7.2 GTS
Number standard	1	1	1

Maximum	2	2	2
L3 cache (full-speed)	15 MB	15 MB	15 MB
Memory (PC3-10600- VL9 DDR3 1333 MHz)	4 GB ECC 1 x 4 GB 4Gb,1Rx4, 1.35V ChipKill	4 GB ECC 1 x 4 GB 4Gb,1Rx4, 1.35V ChipKill	4 GB ECC 1 x 4 GB 4Gb,1Rx4, 1.35V ChipKill
DIMM sockets standard	6	6	6
DIMM sockets maximum	12	12	12
Capacity	384 GB <sup>10</sup>	384 GB <sup>10</sup>	384 GB <sup>10</sup>
Video memory	SVGA 16 MB	SVGA 16 MB	SVGA 16 MB
SAS/SATA RAID controller	H1110	M1115	M1115
Channels	4	8	8
Connector internal	1	2	2
Connector external	0	0	0
HDD Support	open-bay 3.5-inch HDD	open bay 2.5-inch HDD	open bay 2.5-inch HDD
Total bays	10	18	18
5.25-in	2	2	2
Hot-swap	8 x LFF	16	16
Internal capacity	8.0 TB <sup>7</sup>	8.0 TB <sup>7</sup>	8.0 TB <sup>7</sup>
Bays available	6	10	10
5.25 in	2	2	2
Hot-swap	4 <sup>7</sup>	8 <sup>7</sup>	8 <sup>7</sup>
Total PCI slots	6	6	6 <sup>13</sup>
PCI-E 3.0 x16	1	1	1
PCI-E 3.0 x8	3	3	3 <sup>14</sup>
PCI-E Gen2 x4	1	1	1 <sup>15</sup>
PCI-E Gen2 x8	1	1	1
Slots available	5	5	5
PCI-E 3.0 x8	2	2	2
PCI-E 3.0 x16	1	1	1
PCI-E Gen2 x4	1	1	1
PCI-E Gen2 x8	1	1	1
Integrated management	Standard <sup>11</sup>	Standard <sup>11</sup>	Standard <sup>11</sup>
Ethernet controllers	4x1GB standard	4x1GB standard	4x1GB standard
Half-height SATA DVD	1	1	1
Power supply	550 W <sup>12</sup>	550 W <sup>12</sup>	550 W <sup>12</sup>
Number standard	1	1	1
Hot-swap	Yes	Yes	Yes
Redundant power	Optional	Optional	Optional
	7382-EAU	7382-EBU	7382-ECU
Processor	Xeon 4C E5-2407	Xeon 6C E5-2420	Xeon 6C E5-2440
Internal speed	2.2 GHz	1.9 GHz	2.4 GHz
External speed	6.4 GTS	7.2 GTS	7.2 GTS
Number standard	1	1	1
Maximum	2	2	2
L3 cache (full-speed)	10 MB	15 MB	15 MB
Memory (PC3-10600- DDR3 1333 MHz)	8 GB ECC 1 x 8 GB 2Rx4, 1.35V No Chipkill	8 GB ECC 1 x 8 GB 8Gb, 2Rx4, 1.35V Chipkill	8 GB ECC 1 x 8 GB 8Gb, 2Rx4, 1.35V Chipkill
DIMM sockets	6	6	6
DIMM sockets maximum	12	12	12
Capacity	384 GB <sup>10</sup>	384 GB <sup>10</sup>	384 GB <sup>10</sup>
Video memory	SVGA 16 MB	SVGA 16 MB	SVGA 16 MB
SAS/SATA RAID controller	M1115	M1115	M1115
Channels	8	8	8
Connector internal	2	2	2
Connector external	0	0	0
HDD Support	open-bay 3.5-inch HDD	open bay 3.5-inch HDD	open bay 2.5-inch HDD
Total bays	10	10	18
5.25-in	2	2	2
Hot-swap	8 x LFF	8	16

Internal capacity	8.0 TB <sup>7</sup>	8.0 TB <sup>7</sup>	8.0 TB <sup>7</sup>
Bays available	6	6	10
5.25 in	2	2	2
Hot-swap	4 <sup>7</sup>	4 <sup>7</sup>	8 <sup>7</sup>
Total PCI slots	6	6	6 <sup>13</sup>
PCI-E 3.0 x16	1	1	1
PCI-E 3.0 x8	3	3	3 <sup>14</sup>
PCI-E Gen2 x4	1	1	1 <sup>15</sup>
PCI-E Gen2 x8	1	1	1
Slots available	5	5	5
PCI-E 3.0 x8	2	2	2
PCI-E 3.0 x16	1	1	1
PCI-E Gen2 x4	1	1	1
PCI-E Gen2 x8	1	1	1
Integrated management	Standard <sup>11</sup>	Standard <sup>11</sup>	Standard <sup>11</sup>
Ethernet controllers	4x1GB standard	4x1GB standard	4x1GB standard
Half-height SATA DVD	1	1	1
Power supply	460 W <sup>12</sup>	550 W <sup>12</sup>	550 W <sup>12</sup>
Number standard	1	1	2
Hot-swap	No	Yes	Yes
Redundant power	None	Optional	Standard

<sup>7</sup>2.5-inch Drive bays provide 8.0 TB using 8x 1 TB SFF SAS HDD options, this can be doubled to 16 TB with optional 8x 2.5-inch HDD upgrade. (Special bid models support up to sixteen 2.5-inch bays with an additional 8 TB of HDD capacity for a total of 16 TB).

3.5-inch Drive bays provide 12 TB as standard using 4x 3 TB LFF SAS/SATA HDD options. This can be doubled to 24 TB with optional 4x 3.5-inch HDD upgrade.

For the latest information on supported HDD options, visit

<http://www-03.ibm.com/systems/info/x86servers/serverproven/compat/us/>

<sup>10</sup>Twelve DIMM slots that enable you to deploy up to 384 GB of DDR3 SDRAM Registered DIMM memory, with 12 slots populated with 32 GB DIMMs optional, maximum 192 GB using 16 GB DIMMS optional, 2 GB or 4 GB memory standard.

<sup>11</sup>These systems contain an integrated management module that provides a set of monitoring and alert features. Refer to the [Description](#) section for details.

<sup>12</sup>The 460-watt power supply is designed to support all systems. Some models come with an HS redundant 550-watt power supply.

<sup>13</sup>Five PCI-e slots from processor 1. When the second processor is fitted, this adds another PCIe slot, giving a total of six.

<sup>14</sup>One PCIe 3.0 x8 slots and one PCIe Gen2 x8 slots operate at electrical x4.

<sup>15</sup>The PCIe Gen2 x8 slot can optionally be changed to a PCI-X slot via interposer card.

#### **SATA DVD drive characteristics<sup>16</sup>**

- Formatted capacity: 650 MB
- Average access time including latency: Less than 85 ms
- Sustained data transfer rate: 3,000 to 7,200 KBps
- Burst data transfer rate
  - ATA PIO mode 4: 16.6 MBps
  - ATA Multiword DMA Mode 2: 16.6 MBps
- Technology: Full constant angular velocity (CAV)

<sup>16</sup>Actual playback speed varies and is often less than maximum.

### **Video subsystem**

- Matrox G200eR2 Video Graphics Controller
- Integrated on planar and connected to the PCI bus
- SVGA compatible video controller (Matrox G200eR2)
- DDR3-528MHz SDRAM video memory controller.
- Video memory is not expandable in this system

Supported video mode capabilities for the SVGA PCI controller

Resolution	Vertical Refresh Rate	Color Depth
1600 x 1200	60, 75,	8, 16, 24
1680 x 1050	60,	8, 16, 24
1440 x 900	60	8, 16, 24
1280 x 1024	60, 75	8, 16, 24
1024 x 768	60, 75, 85	8, 16, 24
800 x 600	60, 72, 75, 85	8, 16, 24
640 x 400	60, 72, 75, 85	8, 16, 24

### **Notes :**

- The grayed ones are supported only if the monitor contains this resolution in his EDID.
- The connector is a 15-pin D-shell; a video cable of 1.8 meters is the maximum supported length.

### **Dimensions**

- Tower:
  - Width: 175.8 mm (6.92 in); 235 mm (9.25 in) with tower
  - Depth: 678.4 mm (26.71 in)
  - Height: 437.7 mm (17.23 in)
  - Weight: 22.0 kg (48.46 lb) (minimum configuration)
  - Weight: 29.7 kg (65.42 lb) (maximum configuration)
- Rack
  - Width: 422.9 mm (16.65 in)
  - Depth: 625.0 mm (24.61 in)
  - Height: 175.8 mm (6.92 in)
  - Weight: 20.5 kg (45.15 lb) (minimum configuration)
  - Weight: 28.2 kg (62.11 lb) (maximum configuration)

### **Electrical**

Models with 460 W power supplies:

- 100 to 127 nominal V ac; 50 - 60 Hz; 6.4 A
- 200 to 240 nominal V ac; 50 - 60 Hz; 3.2 A
- Input kilovolt-amperes (kVA) (approximately):
  - Minimum configuration: 0.10 kVA
  - Maximum configuration: 0.64 kVA

Models with 550 W power supplies:

- 100 to 127 nominal V ac; 50 - 60 Hz; 6.5 A
- 200 to 240 nominal V ac; 50 - 60 Hz; 3.3 A

- Input kilovolt-amperes (kVA) (approximately):
  - Minimum configuration: 0.11 kVA
  - Maximum configuration: 0.66 kVA

Models with 750 W power supplies:

- 100 to 127 nominal V ac; 50 - 60 Hz; 8.9 A
- 200 to 240 nominal V ac; 50 - 60 Hz; 4.5 A
- Input kilovolt-amperes (kVA) (approximately):
  - Minimum configuration: 0.12 kVA
  - Maximum configuration: 0.90 kVA
- Btu output: ship configuration - 392.3 Btu/hr (115 watts ac)
- Btu output: full configuration - 2900.2 Btu/hr (850 watts ac)
- Acoustical noise emission levels:
  - 5.5 bels (idling)
  - 6.0 bels (operating)

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

These servers are intended for use as floor-standing servers and are tested and designed to operate in a horizontal position. These servers can also be used as a rack model with the optional rack install kit.

### **Standards**

These systems support or comply with the following standards:

- Multiprocessor Specification (MPS) 1.4
- Peripheral Component Interconnect (PCI) specification 2.2
- Peripheral Component Interconnect (PCI-X) specification v2.1
- PCI-Express specification 1.0
- Hardware-enabled to meet the International Organization for Standardization (ISO) 9241, Part 3

### **Equipment approvals and safety**

- FCC - Verified to comply with Part 15 of the FCC Rules, Class A
- Canada ICES-003, issue 4, Class A
- UL/IEC 60950-1
- CSA C22.2 No. 60950-1-07
- NOM-019<sup>16</sup>
- Argentina IEC60950-1

<sup>16</sup>This server model is certified by the respective UL and NOM agencies.

### **Standards**

Reference information:

PCI Table slots

Slot Number	Configuration 1 (One CPU Installed)	Configuration 2 (Two CPU Installed)
1	N/A	Gen 3 PCIe x8 (x8 link)

2	Gen 3 PCIe x8 (x8 link)	Gen 3 PCIe x8 (x8 link)
3	Gen 3 PCIe x4 (x4 link)	Gen 3 PCIe x4 (x4 link)
4	Gen 3 PCIe x16 (x8 link)	Gen 3 PCIe x16 (x8 link)
5	Gen 2 PCIe x4 (x1 link)	Gen 2 PCIe x4 (x1 link)
6	Gen 2 PCIe x8 (x4 link)	Gen 2 PCIe x8 (x4 link)

### **Operating environment**

- Environment temperature:
  - Server on: 5°C to 40°C (41°F to 104°F); altitude: 0 to 915 m (3,117 ft)
  - Server on: 10°C to 32°C (50°F to 90°F); altitude: 915 m (3,000 ft) to 2,134 m (7,000 ft)
  - Server on: 10°C to 28°C (50°F to 83°F); altitude: 2,134 m (7,000 ft) to 3,050 m (10,000 ft)
  - Server off: 5°C to 45°C (41°F to 113°F)
  - Shipping: -40°C to 60°C (-40°F to 140°F) Altitude: 10,700 m (35,105 ft)
  - Relative humidity: 5% - 100%
  - Maximum dew point: 29°C (84.2°F)
- Humidity:
  - Server on: 20% to 80% , Max. Dew Point 21°C, Max. rate of change 5°C/hr
  - Server off: 8% to 80%, Max. Dew Point 27°C
- Maximum altitude: 2,134 m (7,000 ft)

### **Hardware requirements**

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

- Keyboard
- Mouse
- HDD
- Display (C117, T115, T117 or equivalent)

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 using a console switch.

### **Software requirements**

#### **Programming requirements**

The following network operating systems are supported in the x3300 M4 servers:

- Microsoft
  - Windows Server 2008, (32 bit and EM64T)

- Windows Server 2008, R2
- Windows Small Business Server 2008 (Premium and Standard)
- VMware
  - VMware ESX Server 4.1
  - VMware ESXi Server 4.1
  - VMware vSphere 5
  - VMware ESXi 5.0
- Linux
  - SUSE Linux™ Enterprise Server 10 for AMD64/EM64T
  - SUSE Linux Enterprise Server 10 with Xen for AMD64/EM64T
  - SUSE Linux Enterprise Server 10 for x86 SP4
  - SUSE Linux Enterprise Server 11 SP1 for x86-64
  - SUSE Linux Enterprise Server 11 for AMD64/EM64T
  - SUSE Linux Enterprise Server 11 64-bit (includes KVM)
  - Red Hat Enterprise Linux 5 Server Edition
  - Red Hat Enterprise Linux 5 x64 Edition includes KVM
  - Red Hat Enterprise Linux 5.7 SE x64
  - Red Hat Enterprise Linux 5 Server with Xen x64 Edition
  - Red Hat Enterprise Linux 6 Server Edition
  - Red Hat Enterprise Linux 6 Server x64 Edition includes KVM
  - Red Hat Enterprise Linux 6.1 SE x64

**Note:** Certification is planned for these operating systems. For additional information on support, certification, and versions on network operating systems, visit

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

### **Compatibility**

The System x3300 M4 server systems contain licensed system programs that include set configuration, set features, and test programs. System BIOS is loaded from a "flash" EEPROM into system memory. This BIOS provides instructions and interfaces designed to support the standard features of the x3300 M4 server and to maintain compatibility with many current software programs.

To view detailed information on the Internet about IBM and non-IBM devices, adapters, software, and network operating systems supported with x3300 servers, visit

<http://www-03.ibm.com/systems/info/x86servers/serverproven/compat/us/>

Contact your IBM representative, IBM Business Partner, or refer to the *IBM Sales Manual* for information on the compatibility of hardware and software for x3300 servers. The *Sales Manual* is updated periodically as new features and options are announced that support these servers.

### **Limitations**

- The System x3300 M4 servers support 384 GB<sup>6</sup> of system memory when you add a 32 GB memory RDIMMs in each of 12 DIMM slots. All supported system memory is addressable through direct memory access (DMA). The x3300 M4 server supports 2 GB, 4 GB, 8 GB, 16 GB, and 32 GB memory synchronized with processor FSB bandwidth. DIMMs must be installed in matched pairs. Refer to the [Planning information](#) section for supported memory options.
- Mixing microprocessors of different speeds or cache size is not supported.

- Use the version of ServerGuide shipped with the system, or a later version, to load software and drivers. Earlier versions of ServerGuide may not be compatible with the server.

x3300 M4 is shipped standard with one processor which only has 6 DIMM sockets attached.

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

Solid-state memory cells have an intrinsic, finite number of write cycles that each cell can incur. As a result, each solid-state device has a maximum amount of write cycles to which it can be subjected, documented as TBW (Total Bytes Written). IBM is not responsible for replacement of hardware that has reached the maximum guaranteed number of write cycles. This limit may be revealed as the device failing to communicate to system generated commands or become incapable of being written to.

<sup>6</sup>Twelve DIMM slots that enable you to deploy up to 384 GB of DDR3 SDRAM Registered DIMM memory, with 12 slots populated with 32 GB DIMMs optional, 2 GB or 4 GB memory standard.

### ***User group requirements***

This announcement satisfies or partially satisfies requirements from one or more of the worldwide user group communities. Groups include COMMON, COMMON Europe, Guide Share Europe (GSE), InterAction (Australia/New Zealand), Japan Guide Share (JGS), and SHARE Inc.

## **Planning information**

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### ***Customer responsibilities***

#### *Customer setup*

The x3300 M4 servers are designated as customer setup. Customer setup instructions are shipped with systems and options.

#### *Bay configuration*

The server contains 10 drive bays. The eight 3.5-inch hot-swap or simple-swap bays or the sixteen 2.5-inch hot-swap bays are located on the lower half of System x3300 tower models. These bays are ready for various supported hot-swap HDD drive option installation. The two bays on the top portion of tower models are designed primarily for removable media devices. One bay contains the DVD-ROM drive, while the remaining one 5.25-inch half-high bays can support tape backup or other devices.

### ***SAS cabling considerations***

The x3300 M4 system can contain two backplanes maximum. Each 3.5-inch backplane supports four drives, and each 2.5-inch backplane support eight drives. The second 2.5-inch backplane is enabled with expander.

The DVD is SATA attached.

### ***External SAS attachment***

In the configurations where an external SAS device attachment is required, a support SAS adapter is required.

### ***External serial attachment***

To attach an external serial cable RS-232, use the serial connector at the rear of the system.

## ***Processor upgrades***

The following processor upgrades are supported:

## ***Supported memory options***

The following memory options are supported:

- 2GB (2Gb, 1Rx8, 1.35V) PC3L-10600R ECC LP RDIMM (49Y1405)
- 4GB (2Gb, 1Rx4, 1.35V) PC3L-10600R ECC LP RDIMM (49Y1406)
- 4GB (2Gb, 2Rx8, 1.35V) PC3L-10600R ECC LP RDIMM (49Y1407)
- 8GB 2Rx4 2Gbit PC3L-10600R LP RDIMM 1.35V Capable (49Y1397)
- 16GB (4Gb,2Rx4,1.35V) PC3-10600 DDR3-1333 LP RDIMM (49Y1563)
- 2GB (2Gb,1Rx8,1.35V) DDR3-1333 LP UDIMM (49Y1403)
- 32 GB (1x32Gb, 4Rx4, 1.35V) PC 3L-10600 CL9 ECC DDR3 (90Y3105) DDR3 1333 MHz LP LR-DIMM (when available)
- 16GB (2Gb, 4Rx4, 1.35V) PC3L-8500R LP RDIMM (49Y1400)
- 4GB (1x4GB, 2Rx8, 1.5V) PC3-12800 CL11 ECC DDR3 1600MHz (90Y3178) LP RDIMM
- 16GB (1x16GB, 2Rx4, 1.5V) PC3-12800 CL11 ECC DDR3 1600MHz (00D4968) LP RDIMM

## ***Power supply requirements***

These models contain either one 460-watt or one 550-watt power supply, model dependent, which is a hot-swap capable supply. When not using redundancy, one hot-swap supply has enough power to supply a fully loaded box. If redundancy is required, you should install additional power supplies to ensure sufficient power will be available. A fault light illuminates when a power supplies fails.

## ***Optional rack installations***

These models are optionally installable as rack units and are designed so they can be installed in an industry-standard 19-inch rack cabinet such as the NetBAY42 or NetBAY25. The x3300 M4 server system requires a rack mount kit for rack installation. In addition, it can also be installed in the deeper NetBAY42 ER.

If you choose not to use an IBM rack, the cabinet must meet EIA-310-D standards for mounting flanges and hole clearances with front to rear mounting of 70 - 73 cm (27.5 - 28.5 in). The rack must provide sufficient room in front of the forward EIA flange to allow for bezel attachment. The standard for 310-D suggests 49 mm (1.9 in) clearance. It must also provide adequate room at the rear of the rack, behind the rear flange for cable management; the System x3300 M4 server requires approximately 16.6 cm (6.5 in) in this space.

The rack should include perforated front and rear doors and must not prevent the flow of cool air into or out of the rack. The weight handling capacity of the rack is 22.7 kg (50 lb). Finally, the rack must provide proper stabilization so that the rack does not become unstable when servers are pulled out of service.

## ***Cable orders***

Dual 10/100/1000 Mbps, full-duplex Ethernet PCI controllers, standard with the x3300 M4 server, are connected directly to independent RJ-45 connectors. The RJ-45 connectors provide a 10BaseT, 100Base-TX, or 1000Base-TX 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 cabling must be used. For 10 Mbps operation, Category 3, 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 x3300 M4 server 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***

Product	Package Description	Boxes
System x3300 M4	System Ship Group	1
	Contents:	
	System Unit	
System x3300 M4	Country Kit Ship Group	
	Contents:	
	M/T 7382 x3300 M4 Ship Group	
	- Important Notices Flyer	
	- Warranty Flyer	
	- CD Documentation (Installation and Service Guide)	

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

### ***Supplies***

**For users:** IBM System x3300 M4 servers can be purchased through the dealers around the world.

### **Security, auditability, and control**

Security and auditability features include:

- Power-on and remote-control password functions provide controls of who has access to the data and server setup program on the server.

It is a customer's responsibility to ensure that the server is secure to prevent sensitive data from being removed.

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

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## **IBM Electronic Services**

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IBM has transformed its delivery of hardware and software support services to help you achieve higher system availability. Electronic Services is a web-enabled solution that offers an exclusive, no-additional-charge enhancement to the service and support available for IBM servers. These services are designed to provide the opportunity for greater system availability with faster problem resolution and preemptive monitoring. Electronic Services comprises two separate, but complementary, elements: Electronic Services news page and Electronic Services Agent.

The Electronic Services news page is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. The news page enables you to gain easier access to IBM resources for assistance in resolving technical problems.

The Electronic Service Agent™ is no-additional-charge software that resides on your server. It monitors events and transmits system inventory information to IBM on a periodic, client-defined timetable. The Electronic Service Agent automatically reports hardware problems to IBM . Early knowledge about potential problems enables IBM to deliver proactive service that may result in higher system availability and performance. In addition, information collected through the Service Agent is made available to IBM service support representatives when they help answer your questions or diagnose problems. Installation and use of IBM Electronic Service Agent for problem reporting enables IBM to provide better support and service for your IBM server.

To learn how Electronic Services can work for you, visit

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

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## 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**

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- System x3300 7382 - Three years
- Optional features - One year

**Note:** For configurations that support the RAID battery, the RAID battery will be warranted for one year effective on its "date of installation." All other product warranty terms for the machine remain unchanged.

An IBM part or feature installed during the initial installation of an IBM machine is subject to a full warranty effective on the date of installation of the machine. An IBM part or feature which replaces a previously installed part or feature assumes the remainder of the warranty period for the replaced part or feature. An IBM part or feature added to a machine without replacing a previously installed part or feature is subject to a full warranty effective on its date of installation. Unless specified otherwise, the warranty period, type of warranty service and service level of a part or feature is the same as the machine it is installed in.

**Note:** Solid-state memory cells have an intrinsic, finite number of write cycles that each cell can incur. As a result, each solid-state device has a maximum amount of write cycles to which it can be subjected, documented as TBW (Total Bytes Written). IBM is not responsible for replacement of hardware that has reached the maximum guaranteed number of write cycles. This limit may be revealed as the device failing to communicate to system generated commands or become incapable of being written to.

## Warranty service

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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 website. Certain machines contain remote support capabilities for direct problem reporting, remote problem determination, and resolution with IBM. You must follow the problem determination and resolution procedures that IBM specifies. Following problem determination, if IBM determines On-site Service is required, scheduling of service will depend upon the time of your call, machine technology and redundancy, and availability of parts. 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 (for example, keyboard, mouse, speaker, memory, or hard disk drive) Service and On-site Service.

### **Customer Replaceable Unit (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 (mandatory) or a Tier 2 (optional) CRU. Installation of Tier 1 CRUs, as specified in this announcement, 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 parts have been designated as Tier 1 CRUs:

- DDR3-1333 memory
- Hard disk drive
- Hot-swap power supply
- Optical drive
- CMOS battery
- Misc kit
- SAS cable
- Backplane signal Y cable
- Front IO module
- Simple-swap back plate
- Hot-swap SAS/SATA cage 8x2.5"
- Redundant power cage
- Power SMBUS Cable
- NVIDIA Quadro 600
- NVIDIA Quadro 2000
- Half-high SATA DVD-ROM
- Half-high SATA multi-burner
- 550 W redundant PSU
- 750 W high efficiency platinum AC power supply

- Backplane
- ServeRAID M1115 SAS/SATA Controller
- ServeRAID M5120
- ServeRAID H1110 SAS/SATA Controller
- Power converter from raptor to norton cable
- Dual port adapter
- ServeRAID M5110
- Backplane asm
- PCI-X interposer conversion riser card
- SSD
- Broadcom NetXtreme I Quad Port GbE Adapter
- Broadcom NetXtreme I Dual Port GbE Adapter
- Raptor CR2 backplane
- 460 W fixed PSU
- Emulex 10GbE Virtual Fabric Adapter III
- Fan asm
- Rear fan asm

The following parts have been designated as Tier 2 CRUs:

- Heatsink
- Planar
- CPU board
- Additional CPU Mech kit
- Intel Xeon Processor
- Redundant power kit

The following parts are designated as structural:

- Tower bezel kit
- Tower to rack kit
- Label GBM
- Chassis base
- Chassis top
- Chassis left
- Air duct
- Bezel blanks
- EMC shield kit
- SS EMC plate kit
- Filler
- Remote RAID battery holder
- Opt wheel USB
- Power cord
- Keyboards

Structural parts: Purchase and replacement of structural parts (components, such as chassis assembly, top cover, and bezel) is customer responsibility. If IBM acquires or installs a structural component at your request, you will be charged for the service.

### **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-country 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 (IWS)**

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-947.ibm.com/support/entry/portal/docdisplay?Indocid=GCOR-3FBJK2>

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**

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#### **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 website. Certain machines contain remote support capabilities for direct problem reporting, remote problem determination, and resolution with IBM . You must follow the problem determination and resolution procedures that IBM specifies. Following problem determination, if IBM determines On-site Service

is required, scheduling of service will depend upon the time of your call, machine technology and redundancy, and availability of parts.

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 website. Certain machines contain remote support capabilities for direct problem reporting, remote problem determination, and resolution with IBM . You must follow the problem determination and resolution procedures that IBM specifies. Following problem determination, if IBM determines On-site Service is required, scheduling of service will depend upon the time of your call, machine technology and redundancy, and availability of parts. 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)***

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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 website. Certain machines contain remote support capabilities for direct problem reporting, remote problem determination, and resolution with IBM . You must follow the problem determination and resolution procedures that IBM specifies. Following problem determination, if IBM determines On-site Service is required, scheduling of service will depend upon the time of your call, machine technology and redundancy, and availability of parts.

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 website. Certain machines contain remote support capabilities for direct problem reporting, remote problem determination, and resolution with IBM. You must follow the problem determination and resolution procedures that IBM specifies. Following problem determination, if IBM determines On-site Service is required, scheduling of service will depend upon the time of your call, machine technology and redundancy, and availability of parts. 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**

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### ***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 its 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.

***IBM hourly service rate classification***

One

***Field-installable features***

Yes

***Model conversions***

No

***Machine installation***

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

***Graduated program license charges apply***

No

***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.ibm.com/servers/support/machine\\_warranties/machine\\_code.html](http://www.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 website.

<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

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**Prices**

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

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

The following are features already announced for the 3331 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support
Addl Intel Xeon Processor 80W Upgrade Kit	E5-2403	4C 1.8GHz 10MB	
	HC1	A2RF	MES
Addl Intel Xeon Processor 80W Upgrade Kit	E5-2407	4C 2.2GHz 10MB	
	HC1	A2RG	MES
Addl Intel Xeon Processor 95W Upgrade Kit	E5-2420	6C 1.9GHz 15MB	
	HC1	A2RH	MES
Addl Intel Xeon Processor 95W Upgrade Kit	E5-2430	6C 2.2GHz 15MB	
	HC1	A2RJ	MES
Addl Intel Xeon Processor 95W Upgrade Kit	E5-2440	6C 2.4GHz 15MB	
	HC1	A2RK	MES
Addl Intel Xeon Processor 60W Upgrade Kit	E5-2430L	6C 2.0GHz 15MB	
	HC1	A2RL	MES
Addl Intel Xeon Processor 70W Upgrade Kit	E5-2450L	8C 1.8GHz 20MB	
	HC1	A2RM	MES
Addl Intel Xeon Processor 95W Upgrade Kit	E5-2450	8C 2.1GHz 20MB	
	HC1	A2RN	MES
Addl Intel Xeon Processor 95W Upgrade Kit	E5-2470	8C 2.3GHz 20MB	
	HC1	A2RP	MES
IBM System x3300 Simple-swap SATA Kit 4x3.5"	HC1	A2SB	MES
IBM System x3300 2nd 2.5" HS Upgrade Kit	HC1	A2SF	MES
Redundant System FAN	HC1	A2SJ	MES
Tower to Rack Kit	HC1	A2SK	MES
IBM System x3300 3.5" HS Kit for HW/SW RAID	HC1	A3E0	MES

The following are newly announced features on the specified models of the IBM xSeries 7382 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support	CSU
IBM System x3300 M4	AC1			Yes
IBM System x3300 M4	MC1			Yes
QLogic 10Gb SFP+ SR optical Transceiver	AC1	0064	Initial	
	MC1		Initial	
Brocade 10Gb SFP+ SR Optical Transceiver	AC1	0069	Initial	
	MC1		Initial	
UID Asset Tag Label	AC1	0747	Initial	
	MC1		Initial	
24" SATA Cable	AC1	0870	Initial	
	MC1		Initial	
NetXtreme II 1000 Express G Ethernet Adapter- PCIe				

	AC1	1485	Initial
	MC1		Initial
Brocade 10Gb CNA for IBM System x	AC1	1637	Initial
	MC1		Initial
Emulex 4Gb FC Single-Port PCI-E HBA for IBM System x	AC1	1698	Initial
	MC1		Initial
Emulex 4Gb FC Dual-Port PCI-E HBA for IBM System x	AC1	1699	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
Custom SLA Scheduling Service	AC1	1796	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
Request for Global Trade Number (UPC or EAN)	AC1	2207	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
Primary Array 12 HDDs	AC1	2400	Initial
	MC1		Initial
Primary Array 13 HDDs	AC1	2401	Initial
	MC1		Initial
Primary Array 14 HDDs	AC1	2402	Initial
	MC1		Initial
Primary Array 15 HDDs	AC1	2403	Initial
	MC1		Initial
Primary Array 16 HDDs	AC1	2404	Initial
	MC1		Initial
Secondary Array 9 HDDs	AC1	2405	Initial
	MC1		Initial
Secondary Array 10 HDDs	AC1	2406	Initial
	MC1		Initial
Secondary Array 11 HDDs	AC1	2407	Initial
	MC1		Initial
Secondary Array 12 HDDs	AC1	2408	Initial
	MC1		Initial
Secondary Array 13 HDDs	AC1	2409	Initial
	MC1		Initial
Secondary Array 14 HDDs	AC1	2410	Initial
	MC1		Initial
Enable selection of Solid State Drives for Secondary Array	AC1	2498	Initial
	MC1		Initial
Enable selection of Solid State Drives for Primary Array	AC1	2499	Initial
	MC1		Initial
PRO/1000 PF Server Adapter	AC1	2975	Initial
	MC1		Initial
NetXtreme II 1000 Express Dual Port Ethernet Adapter	AC1	2995	Initial
	MC1		Initial
Rack 01	AC1	3101	Initial
	MC1		Initial
Rack 02	AC1	3102	Initial
	MC1		Initial
Rack 03	AC1	3103	Initial
	MC1		Initial
Rack 04			

	AC1 MC1	3104	Initial Initial
Rack 05			
	AC1 MC1	3105	Initial Initial
Rack 06			
	AC1 MC1	3106	Initial Initial
Rack 07			
	AC1 MC1	3107	Initial Initial
Rack 08			
	AC1 MC1	3108	Initial Initial
Rack 09			
	AC1 MC1	3109	Initial Initial
Rack 10			
	AC1 MC1	3110	Initial Initial
Rack 11			
	AC1 MC1	3111	Initial Initial
Rack 12			
	AC1 MC1	3112	Initial Initial
Rack 13			
	AC1 MC1	3113	Initial Initial
Rack 14			
	AC1 MC1	3114	Initial Initial
Rack 15			
	AC1 MC1	3115	Initial Initial
Rack 16			
	AC1 MC1	3116	Initial Initial
Rack 17			
	AC1 MC1	3117	Initial Initial
Rack 18			
	AC1 MC1	3118	Initial Initial
Rack 19			
	AC1 MC1	3119	Initial Initial
Rack 20			
	AC1 MC1	3120	Initial Initial
Rack 21			
	AC1 MC1	3121	Initial Initial
Rack 22			
	AC1 MC1	3122	Initial Initial
Rack 23			
	AC1 MC1	3123	Initial Initial
Rack 24			
	AC1 MC1	3124	Initial Initial
Rack 25			
	AC1 MC1	3125	Initial Initial
Rack 26			
	AC1 MC1	3126	Initial Initial
Rack 27			
	AC1 MC1	3127	Initial Initial
Rack 28			
	AC1 MC1	3128	Initial Initial

Rack 29	AC1 MC1	3129	Initial Initial
Rack 30	AC1 MC1	3130	Initial Initial
Rack 31	AC1 MC1	3131	Initial Initial
Rack 32	AC1 MC1	3132	Initial Initial
Rack 33	AC1 MC1	3133	Initial Initial
Rack 34	AC1 MC1	3134	Initial Initial
Rack 35	AC1 MC1	3135	Initial Initial
Rack 36	AC1 MC1	3136	Initial Initial
Rack 37	AC1 MC1	3137	Initial Initial
Rack 38	AC1 MC1	3138	Initial Initial
Rack 39	AC1 MC1	3139	Initial Initial
Rack 40	AC1 MC1	3140	Initial Initial
Rack 41	AC1 MC1	3141	Initial Initial
Rack 42	AC1 MC1	3142	Initial Initial
Rack 43	AC1 MC1	3143	Initial Initial
Rack 44	AC1 MC1	3144	Initial Initial
Rack 45	AC1 MC1	3145	Initial Initial
Rack 46	AC1 MC1	3146	Initial Initial
Rack 47	AC1 MC1	3147	Initial Initial
Rack 48	AC1 MC1	3148	Initial Initial
Rack 49	AC1 MC1	3149	Initial Initial
Rack 50	AC1 MC1	3150	Initial Initial
Rack 51	AC1 MC1	3151	Initial Initial
Rack 52	AC1 MC1	3152	Initial Initial
Rack 53	AC1	3153	Initial

	MC1		Initial
Rack 54	AC1 MC1	3154	Initial Initial
Rack 55	AC1 MC1	3155	Initial Initial
Rack 56	AC1 MC1	3156	Initial Initial
Rack 57	AC1 MC1	3157	Initial Initial
Rack 58	AC1 MC1	3158	Initial Initial
Rack 59	AC1 MC1	3159	Initial Initial
Rack 60	AC1 MC1	3160	Initial Initial
Rack 61	AC1 MC1	3161	Initial Initial
Rack 62	AC1 MC1	3162	Initial Initial
Rack 63	AC1 MC1	3163	Initial Initial
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	3213	Initial Initial

	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 MC1	3221	Initial Initial
Rack location U22			
	AC1 MC1	3222	Initial Initial
Rack location U23			
	AC1 MC1	3223	Initial Initial
Rack location U24			
	AC1 MC1	3224	Initial Initial
Rack location U25			
	AC1 MC1	3225	Initial Initial
Rack location U26			
	AC1 MC1	3226	Initial Initial
Rack location U27			
	AC1 MC1	3227	Initial Initial
Rack location U28			
	AC1 MC1	3228	Initial Initial
Rack location U29			
	AC1 MC1	3229	Initial Initial
Rack location U30			
	AC1 MC1	3230	Initial Initial
Rack location U31			
	AC1 MC1	3231	Initial Initial
Rack location U32			
	AC1 MC1	3232	Initial Initial
Rack location U33			
	AC1 MC1	3233	Initial Initial
Rack location U34			
	AC1 MC1	3234	Initial Initial
Rack location U35			
	AC1 MC1	3235	Initial Initial
Rack location U36			
	AC1 MC1	3236	Initial Initial
Rack location U37			
	AC1 MC1	3237	Initial Initial
Rack location U38			
	AC1 MC1	3238	Initial 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
Rack location U43	AC1	3243	Initial
	MC1		Initial
Rack location U44	AC1	3244	Initial
	MC1		Initial
Rack location U45	AC1	3245	Initial
	MC1		Initial
Rack location U46	AC1	3246	Initial
	MC1		Initial
Rack location U47	AC1	3247	Initial
	MC1		Initial
QLogic 4Gb FC Single-Port PCIe HBA for IBM System x	AC1	3567	Initial
	MC1		Initial
QLogic 4Gb FC Dual-Port PCIe HBA for IBM System x	AC1	3568	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
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
IBM 3M SAS Cable	AC1	3707	Initial
	MC1		Initial
IBM 1M SAS Cable	AC1	3708	Initial
	MC1		Initial
IBM Single Cable USB Conversion Option (UCO)	AC1	3757	Initial
	MC1		Initial
IBM 6Gb Performance Optimized HBA	AC1	3876	Initial
	MC1		
Brocade 4Gb FC Single-port HBA for IBM System x	AC1	3885	Initial
	MC1		Initial
Brocade 4Gb FC Dual-port HBA for IBM System x	AC1	3886	Initial
	MC1		Initial
Half-High SATA DVD-ROM	AC1	4154	Initial
	MC1		Initial
IBM HH Multiburner DVD	AC1	4155	Initial

	MC1		Initial
IBM Half High LTO Gen 5 Internal SAS Tape Drive	AC1	5345	Initial
	MC1		Initial
IBM Half High LTO Gen 3 SAS Tape Drive	AC1	5393	Initial
	MC1		Initial
IBM DDS Gen 6 USB Tape Drive	AC1	5395	Initial
	MC1		Initial
IBM Half-high LTO Gen 4 SAS Tape Drive	AC1	5397	Initial
	MC1		Initial
IBM RDX 320GB Cartridge	AC1	5708	Initial
	MC1		Initial
IBM RDX 500GB Cartridge	AC1	5709	Initial
	MC1		Initial
IBM DDS Generation 5 USB Tape Drive	AC1	5711	Initial
	MC1		Initial
QLogic 10Gb CNA for IBM System x	AC1	5751	Initial
	MC1		Initial
NetXtreme II 1000 Express Quad Port Ethernet Adapter	AC1	5766	Initial
	MC1		Initial
Intel Ethernet Dual Port Server Adapter I340-T2 for IBM System x	AC1	5767	Initial
	MC1		Initial
Intel Ethernet Quad Port Server Adapter I340-T4 for IBM System x	AC1	5768	Initial
	MC1		Initial
Select Storage devices - no IBM-configured RAID required	AC1	5977	Initial
	MC1		Initial
Select Storage devices - IBM-configured RAID	AC1	5978	Initial
	MC1		Initial
IBM 6Gb SAS HBA	AC1	5982	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
Line cord - 4.3M, 10A/125V, C13 to NEMA 5-15P (US)	AC1	6207	Initial
	MC1		Initial
4.3m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable	AC1	6263	Initial
	MC1		Initial
2.8m, 10A/120V, C13 to NEMA 5-15P (US) Line Cord	AC1	6313	Initial
	MC1		Initial
Line cord - 2.8m, 10A/250V, C13 to NEMA 6-15P (US)	AC1	6372	Initial
	MC1		Initial
2.8m, 13A/120V, C13 to NEMA 5-15P (US) Line Cord	AC1	6401	Initial
	MC1		

Primary Array 2 HDDs	AC1 MC1	7008	Initial Initial
Primary Array 3 HDDs	AC1 MC1	7009	Initial Initial
Primary Array 4 HDDs	AC1 MC1	7010	Initial Initial
Primary Array 5 HDDs	AC1 MC1	7011	Initial Initial
Primary Array 6 HDDs	AC1 MC1	7012	Initial Initial
Primary Array 7 HDDs	AC1 MC1	7013	Initial Initial
Primary Array 8 HDDs	AC1 MC1	7014	Initial Initial
Secondary Array 2 HDDs	AC1 MC1	7015	Initial Initial
Secondary Array 3 HDDs	AC1 MC1	7016	Initial Initial
Secondary Array 4 HDDs	AC1 MC1	7017	Initial Initial
Secondary Array 5 HDDs	AC1 MC1	7057	Initial Initial
Secondary Array 6 HDDs	AC1 MC1	7058	Initial Initial
Secondary Array 7 HDDs	AC1 MC1	7059	Initial Initial
Secondary Array 8 HDDs	AC1 MC1	7060	Initial Initial
China Warranty	AC1 MC1	7599	Initial Initial
Primary Array 9 HDDs	AC1 MC1	7664	Initial Initial
Grouped Product	AC1 MC1	7830	Initial Initial
Customer Solution Center Services	AC1 MC1	7831	Initial Initial
e1350 Special Bid Solution Component	AC1 MC1	7929	Initial Initial
No HDD Selected	AC1 MC1	8026	Initial Initial
Consolidate Shipment	AC1 MC1	8031	Initial Initial
e1350 Solution Component	AC1 MC1	8034	Initial Initial
Compute Node	AC1 MC1	8036	Initial Initial
Management Node	AC1 MC1	8037	Initial 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
4GB (1x4GB, 2Rx8, 1.35V) PC3L-10600 CL9 ECC DDR3 1333MHZ LP UDIMM	AC1	8648	Initial
	MC1		Initial
IBM Keyboard w/ Int. Pointing Device USB - US English 103P RoHS	AC1	A31J	Initial
	MC1		Initial
IBM Pref. Pro Keyboard USB - US English 103P RoHS	AC1	A32E	Initial
	MC1		
IBM 2 Button Optical Wheel Mouse - Black - USB	AC1	8912	Initial
	MC1		Initial
8GB (1x8GB, 2Rx4, 1.35V) PC3L-10600 CL9 ECC DDR3 1333MHZ LP RDIMM	AC1	8923	Initial
	MC1		Initial
16GB (1x16GB, 4Rx4, 1.35V) PC3L-8500 CL7 ECC DDR3 1066MHZ LP RDIMM	AC1	8939	Initial
	MC1		Initial
2GB (1x2GB, 1Rx8, 1.35V) PC3L-10600 CL9 ECC DDR3 1333MHZ LP RDIMM	AC1	8940	Initial
	MC1		Initial
4GB (1x4GB, 1Rx4, 1.35V) PC3L-10600 CL9 ECC DDR3 1333MHZ LP RDIMM	AC1	8941	Initial
	MC1		Initial
4GB (1x4GB, 2Rx8, 1.35V) PC3L-10600 CL9 ECC DDR3 1333MHZ LP RDIMM	AC1	8942	Initial
	MC1		Initial
Integrate in manufacturing	AC1	8971	Initial
	MC1		Initial
Ship Uninstalled (Safety)	AC1	8972	Initial
	MC1		Initial
Hot Spare	AC1	9013	Initial
	MC1		Initial
Memory Sparing	AC1	9016	Initial
	MC1		Initial
Enable Memory Mirroring			

	AC1 MC1	9017	Initial Initial
Storage Subsystem ID 01			
	AC1 MC1	9170	Initial Initial
Storage Subsystem ID 02			
	AC1 MC1	9171	Initial Initial
Storage Subsystem ID 03			
	AC1 MC1	9172	Initial Initial
Storage Subsystem ID 04			
	AC1 MC1	9173	Initial Initial
Storage Subsystem ID 05			
	AC1 MC1	9174	Initial Initial
Storage Subsystem ID 06			
	AC1 MC1	9175	Initial Initial
Storage Subsystem ID 07			
	AC1 MC1	9176	Initial Initial
Storage Subsystem ID 08			
	AC1 MC1	9177	Initial Initial
Storage Subsystem ID 09			
	AC1 MC1	9178	Initial Initial
Storage Subsystem ID 10			
	AC1 MC1	9179	Initial Initial
Storage Subsystem ID 11			
	AC1 MC1	9180	Initial Initial
Storage Subsystem ID 12			
	AC1 MC1	9181	Initial Initial
Storage Subsystem ID 13			
	AC1 MC1	9182	Initial Initial
Storage Subsystem ID 14			
	AC1 MC1	9183	Initial Initial
Storage Subsystem ID 15			
	AC1 MC1	9184	Initial Initial
Storage Subsystem ID 16			
	AC1 MC1	9185	Initial Initial
Storage Subsystem ID 17			
	AC1 MC1	9186	Initial Initial
Storage Subsystem ID 18			
	AC1 MC1	9187	Initial Initial
Storage Subsystem ID 19			
	AC1 MC1	9188	Initial Initial
Storage Subsystem ID 20			
	AC1 MC1	9189	Initial Initial
Preload Specify			
	AC1 MC1	9200	Initial Initial
Windows Specify			
	MC1	9201	Initial
Red Hat Specify			
	AC1	9202	Initial
SuSE Specify			
	AC1	9203	Initial
Drop-in-the-Box Specify			
	AC1 MC1	9205	Initial Initial

No Preload Specify	AC1	9206	Initial
	MC1		Initial
VMWare Specify	AC1	9207	Initial
	MC1		Initial
Preload by Hardware Feature Specify	AC1	9220	Initial
	MC1		Initial
Internal split SAS cable	AC1	9265	Initial
	MC1		Initial
1 meter internal USB cable	AC1	9266	Initial
	MC1		Initial
Primary Array 10 HDDs	AC1	9714	Initial
	MC1		Initial
Primary Array 11 HDDs	AC1	9715	Initial
	MC1		Initial
2GB (1x2GB, 1Rx8, 1.35V) PC3L-10600 ECC DDR3 1333MHZ LP UDIMM	AC1	A0QS	Initial
	MC1		Initial
Software Application (Not Preinstalled) Specify	AC1	A0UF	Initial
	MC1		Initial
NVIDIA Quadro 600	AC1	A13K	Initial
	MC1		Initial
Broadcom NetXtreme II Dual Port 10GBaseT Adapter for IBM System x	AC1	A18Y	Initial
	MC1		Initial
IBM 1TB 7.2K 6Gbps NL SATA 2.5" SFF HS HDD	AC1	A1AV	Initial
	MC1		Initial
ServerRAID M5100 Series 512MB Cache/RAID 5 Upgrade for IBM System x	AC1	A1J3	Initial
	MC1		Initial
ServerRAID M5100 Series 512MB Flash/RAID 5 Upgrade for IBM System x	AC1	A1J4	Initial
	MC1		Initial
Mellanox ConnectX-2 Dual Port 10GbE Adapter for IBM System x	AC1	A1M4	Initial
	MC1		Initial
IBM Integrated Management Module Advanced Upgrade	AC1	A1ML	Initial
	MC1		Initial
ServerRAID M1115 SAS/SATA Controller for IBM System x	AC1	A1MZ	Initial
	MC1		Initial
IBM 250GB 7.2K 6Gbps NL SATA 2.5" SFF HS HDD	AC1	A1NX	Initial
	MC1		Initial
IBM 500GB 7.2K 6Gbps NL SATA 2.5" SFF HS HDD	AC1	A1NZ	Initial
	MC1		Initial
IBM 1TB 7.2K 6Gbps NL SAS 2.5" SFF HS HDD	AC1	A1P3	Initial
	MC1		Initial
16GB (1x16GB, 2Rx4, 1.35V) PC3L-10600 CL9 ECC DDR3 1333MHZ LP RDIMM	AC1	A1QT	Initial
	MC1		Initial
NVIDIA Quadro 2000	AC1	A1QU	Initial
	MC1		Initial
IBM RDX 1TB Cartridge			

	AC1	A1VL	Initial
	MC1		Initial
ServerRAID M5120 SAS/SATA Controller for IBM System x			
	AC1	A1WX	Initial
	MC1		Initial
ServerRAID M5100 Series 1GB Flash/RAID 5 Upgrade for IBM System x			
	AC1	A1WY	Initial
	MC1		Initial
ServerRAID M1100 Series Zero Cache/RAID 5 Upgrade for IBM System x			
	AC1	A1X1	Initial
	MC1		Initial
ServerRAID M5100 Series Zero Cache/RAID 5 Upgrade for IBM System x			
	AC1	A1X2	Initial
	MC1		Initial
ServerRAID M5100 Series RAID 6 Upgrade for IBM System x			
	AC1	A1X3	Initial
	MC1		Initial
3U bracket for low profile-internal-storage adapters			
	AC1	A1X6	Initial
	MC1		Initial
ServerRAID M5100 Series 425mm Flash Power Module Cable			
	AC1	A1X9	Initial
	MC1		Initial
ServerRAID H1110 SAS/SATA Controller for IBM System x			
	AC1	A1XL	Initial
	MC1		Initial
ServerRAID M5100 Series Battery Kit for IBM System x			
	AC1	A22E	Initial
	MC1		Initial
IBM 1TB 7.2K 6Gbps NL SATA 3.5" G2HS HDD			
	AC1	A22P	Initial
	MC1		Initial
IBM 3TB 7.2K 6Gbps NL SATA 3.5" G2HS HDD			
	AC1	A22S	Initial
	MC1		Initial
IBM 2TB 7.2K 6Gbps NL SATA 3.5" G2HS HDD			
	AC1	A22T	Initial
	MC1		Initial
IBM 500GB 7.2K 6Gbps NL SATA 3.5" G2SS HDD			
	AC1	A22U	Initial
	MC1		Initial
IBM 3TB 7.2K 6Gbps NL SATA 3.5" G2SS HDD			
	AC1	A22V	Initial
	MC1		Initial
IBM 2TB 7.2K 6Gbps NL SATA 3.5" G2SS HDD			
	AC1	A22W	Initial
	MC1		Initial
IBM 1TB 7.2K 6Gbps NL SATA 3.5" G2SS HDD			
	AC1	A22X	Initial
	MC1		Initial
IBM 500GB 7.2K 6Gbps NL SATA 3.5" G2HS HDD			
	AC1	A22Y	Initial
	MC1		Initial
4GB (1x4GB, 2Rx8, 1.5V) PC3-12800 CL11 ECC DDR3 1600MHZ LP RDIMM			
	AC1	A24L	Initial
	MC1		Initial
IBM 1TB 7.2K 6Gbps NL SAS 3.5" G2HS HDD			
	AC1	A26M	Initial
	MC1		Initial
IBM 900GB 10K 6Gbps SAS 2.5" SFF HS HDD			
	AC1	A282	Initial
	MC1		Initial
IBM 300GB 15K 6Gbps SAS 2.5" SFF HS HDD			
	AC1	A283	Initial
	MC1		Initial

4GB (1x4GB, 1Rx4, 1.5V) PC3-12800 CL11 ECC DDR3 1600MHZ LP RDIMM	AC1 MC1	A28Z	Initial Initial
8GB (1x8GB, 2Rx4, 1.5V) PC3-12800 CL11 ECC DDR3 1600MHZ LP RDIMM	AC1 MC1	A292	Initial Initial
Label KC	AC1 MC1	A2CM	Initial Initial
Intel x520 Dual Port 10GbE SFP+ Adapter for IBM System x	AC1 MC1	A2EC	Initial Initial
Intel X540-T2 Dual Port 10GBaseT Adapter for IBM System x	AC1 MC1	A2ED	Initial
IBM 200GB SATA 2.5" MLC HS SSD	AC1 MC1	A2FN	Initial Initial
IBM Blank USB Memory Key for VMware ESXi Downloads	AC1 MC1	A2G0	Initial Initial
Intel Ethernet Adapter Powerville - 4 port upgrade	AC1 MC1	A2GT	Initial Initial
Configuration ID 01	AC1 MC1	A2HP	Initial Initial
Configuration ID 02	AC1 MC1	A2HQ	Initial Initial
Configuration ID 03	AC1 MC1	A2HR	Initial Initial
Configuration ID 04	AC1 MC1	A2HS	Initial Initial
Configuration ID 05	AC1 MC1	A2HT	Initial Initial
Configuration ID 06	AC1 MC1	A2HU	Initial Initial
Configuration ID 07	AC1 MC1	A2HV	Initial Initial
Configuration ID 08	AC1 MC1	A2HW	Initial Initial
Configuration ID 09	AC1 MC1	A2HX	Initial Initial
Configuration ID 10	AC1 MC1	A2HY	Initial Initial
Configuration ID 11	AC1 MC1	A2HZ	Initial Initial
Configuration ID 12	AC1 MC1	A2J0	Initial Initial
Configuration ID 13	AC1 MC1	A2J1	Initial Initial
Configuration ID 14	AC1 MC1	A2J2	Initial Initial
Configuration ID 15	AC1 MC1	A2J3	Initial Initial
Configuration ID 16			

Configuration ID 17	AC1 MC1	A2J4	Initial Initial
Configuration ID 18	AC1 MC1	A2J5	Initial Initial
Configuration ID 19	AC1 MC1	A2J6	Initial Initial
Configuration ID 20	AC1 MC1	A2J7	Initial Initial
Configuration ID 21	AC1 MC1	A2J8	Initial Initial
Configuration ID 22	AC1 MC1	A2J9	Initial Initial
Configuration ID 23	AC1 MC1	A2JA	Initial Initial
Configuration ID 24	AC1 MC1	A2JB	Initial Initial
Configuration ID 25	AC1 MC1	A2JC	Initial Initial
Configuration ID 26	AC1 MC1	A2JD	Initial Initial
Configuration ID 27	AC1 MC1	A2JE	Initial Initial
Configuration ID 28	AC1 MC1	A2JF	Initial Initial
Configuration ID 29	AC1 MC1	A2JG	Initial Initial
Configuration ID 30	AC1 MC1	A2JH	Initial Initial
Configuration ID 31	AC1 MC1	A2JJ	Initial Initial
Configuration ID 32	AC1 MC1	A2JK	Initial Initial
Configuration ID 33	AC1 MC1	A2JL	Initial Initial
Configuration ID 34	AC1 MC1	A2JM	Initial Initial
Configuration ID 35	AC1 MC1	A2JN	Initial Initial
Configuration ID 36	AC1 MC1	A2JP	Initial Initial
Configuration ID 37	AC1 MC1	A2JQ	Initial Initial
Configuration ID 38	AC1 MC1	A2JR	Initial Initial
Configuration ID 39	AC1 MC1	A2JS	Initial Initial
Configuration ID 40	AC1 MC1	A2JT	Initial Initial
	AC1 MC1	A2JU	Initial Initial

Configuration ID 41	AC1 MC1	A2JV	Initial Initial
Configuration ID 42	AC1 MC1	A2JW	Initial Initial
Controller 01	AC1 MC1	A2JX	Initial Initial
Controller 02	AC1 MC1	A2JY	Initial Initial
Controller 03	AC1 MC1	A2JZ	Initial Initial
Controller 04	AC1 MC1	A2K0	Initial Initial
Controller 05	AC1 MC1	A2K1	Initial Initial
Primary Array - RAID 0	AC1 MC1	A2K6	Initial Initial
Primary Array - RAID 1	AC1 MC1	A2K7	Initial Initial
Primary Array - RAID 1E	AC1 MC1	A2K8	Initial Initial
Primary Array - RAID 5	AC1 MC1	A2K9	Initial Initial
Primary Array - RAID 6	AC1 MC1	A2KA	Initial Initial
Primary Array - RAID 10	AC1 MC1	A2KB	Initial Initial
Secondary Array - RAID 0	AC1 MC1	A2KF	Initial Initial
Secondary Array - RAID 1	AC1 MC1	A2KG	Initial Initial
Secondary Array - RAID 1E	AC1 MC1	A2KH	Initial Initial
Secondary Array - RAID 5	AC1 MC1	A2KJ	Initial Initial
Secondary Array - RAID 6	AC1 MC1	A2KK	Initial Initial
Secondary Array - RAID 10	AC1 MC1	A2KL	Initial Initial
ServerRAID M5100 Series SSD Performance Key for IBM System x	AC1 MC1	A2MC	Initial Initial
ServerRAID M5100 Series SSD Caching Enabler for IBM System x	AC1 MC1	A2MD	Initial Initial
IBM 3TB 7.2K 6Gbps NL SAS 3.5" G2HS HDD	AC1 MC1	A2R2	Initial Initial
Intel Xeon Processor E5-2403 4C 1.8GHz 10MB Cache 1066MHz 80W	AC1 MC1	A2R4	Initial Initial
Intel Xeon Processor E5-2407 4C 2.2GHz 10MB Cache 1066MHz 80W	AC1 MC1		Initial Initial

	AC1	A2R5	Initial
	MC1		Initial
Intel Xeon Processor E5-2420	6C	1.9GHz	15MB Cache
1333MHz 95W			
	AC1	A2R6	Initial
	MC1		Initial
Intel Xeon Processor E5-2430	6C	2.2GHz	15MB Cache
1333MHz 95W			
	AC1	A2R7	Initial
	MC1		Initial
Intel Xeon Processor E5-2440	6C	2.4GHz	15MB Cache
1333MHz 95W			
	AC1	A2R8	Initial
	MC1		Initial
Intel Pentium Processor 1403	2C	2.6GHz	5MB Cache
1066MHz 80W			
	AC1	A2R9	Initial
	MC1		Initial
Intel Pentium Processor 1407	2C	2.8GHz	5MB Cache
1066MHz 80W			
	AC1	A2RA	Initial
	MC1		Initial
Intel Xeon Processor E5-2430L	6C	2.0GHz	15MB Cache
1333MHz 60W			
	AC1	A2RB	Initial
	MC1		Initial
Intel Xeon Processor E5-2450L	8C	1.8GHz	20MB Cache
1600MHz 70W			
	AC1	A2RC	Initial
	MC1		Initial
Intel Xeon Processor E5-2450	8C	2.1GHz	20MB Cache
1600MHz 95W			
	AC1	A2RD	Initial
	MC1		Initial
Intel Xeon Processor E5-2470	8C	2.3GHz	20MB Cache
1600MHz 95W			
	AC1	A2RE	Initial
	MC1		Initial
IBM System x3300 L5 Chassis base			
	AC1	A2S7	Initial
	MC1		Initial
IBM 460W Fixed PSU			
	AC1	A2S8	Initial
	MC1		Initial
IBM 550W Redundant PSU			
	AC1	A2S9	Initial
	MC1		Initial
IBM 750W Redundant PSU			
	AC1	A2SA	Initial
	MC1		Initial
IBM System x3300 3.5" HS Kit for HW/SW RAID			
	AC1	A2SC	Initial
	MC1		Initial
IBM System x3300 1st 2.5" HS Kit			
	AC1	A2SE	Initial
	MC1		Initial
Redundant Power Kit			
	AC1	A2SG	Initial
	MC1		Initial
PCI-X Riser Kit			
	AC1	A2SH	Initial
	MC1		Initial
3.5" Bracket for 2nd HDD Cage			
	AC1	A2SL	Initial
	MC1		Initial
Backplane signal Y cable for Norton(3.5")			
	AC1	A2SM	Initial
	MC1		Initial
BIOS GBM			
	AC1	A2SN	Initial
	MC1		Initial
Backplane signal Y cable for Raptor(2.5")			
	AC1	A2SP	Initial
	MC1		Initial

HDD BP POWER 16 to 14 ( RAID management Y cable)	AC1	A2SQ	Initial
	MC1		Initial
3.5" HS HDD Filler	AC1	A2SR	Initial
	MC1		Initial
2.5" HS HDD Filler	AC1	A2SS	Initial
	MC1		Initial
PWR cage Filler	AC1	A2ST	Initial
	MC1		Initial
Agency Label	AC1	A2SU	Initial
	MC1		Initial
Label GBM	AC1	A2SV	Initial
	MC1		Initial
IBM System x3300 Planar	AC1	A2SW	Initial
	MC1		Initial
IBM System x3300 Packaging - Tower model	AC1	A2SX	Initial
	MC1		Initial
IBM System x3300 Packaging - Tower to Rack model	AC1	A2SY	Initial
	MC1		Initial
System Documentation and Software-US English	AC1	A2TC	Initial
	MC1		Initial
IBM 2TB 7.2K 6Gbps NL SAS 3.5" G2HS HDD	AC1	A2U0	Initial
	MC1		Initial
Emulex Dual Port 10GbE SFP+ VFA III for IBM System x	AC1	A2U1	Initial
	MC1		Initial
Emulex VFA III FCoE/iSCSI License for IBM System x (FoD)	AC1	A2U2	Initial
	MC1		Initial
IBM 256GB SATA 2.5" MLC HS Entry SSD	AC1	A2U3	Initial
	MC1		Initial
IBM 128GB SATA 2.5" MLC HS Entry SSD	AC1	A2U4	Initial
	MC1		Initial
16GB (1x16GB, 2Rx4, 1.5V) PC3-12800 CL11 ECC DDR3 1600MHZ LP RDIMM	AC1	A2U5	Initial
	MC1		Initial
IBM RDX 3 Internal USB Drive	AC1	A2U7	Initial
	MC1		Initial
Emulex Dual Port 10GbE SFP+ Integrated VFA III for IBM System x	MC1	A2UN	Initial
Broadcom NetXtreme I Quad Port GbE Adapter for IBM System x	AC1	A2V3	Initial
	MC1		Initial
Broadcom NetXtreme I Dual Port GbE Adapter for IBM System x	AC1	A2V4	Initial
	MC1		Initial
8-Pack ServerRAID C105 Controller Enabler for IBM System x	AC1	A2V7	Initial
	MC1		Initial
ServerRAID C105 for IBM System x	AC1	A2VA	Initial
	MC1		Initial

IBM USB Memory Key for VMware ESXi 5.0	AC1	A2VC	Initial
	MC1		Initial
Emulex 16Gb FC Single-port HBA for IBM System x	AC1	A2W5	Initial
	MC1		
Emulex 16Gb FC Dual-port HBA for IBM System x	AC1	A2W6	Initial
	MC1		
No Power Cord Validation	AC1	A2X0	Initial
	MC1		Initial
IBM 146GB 15K 6Gbps SAS 2.5" SFF G2HS HDD	AC1	A2XB	Initial
	MC1		Initial
IBM 300GB 10K 6Gbps SAS 2.5" SFF G2HS HDD	AC1	A2XC	Initial
	MC1		Initial
IBM 600GB 10K 6Gbps SAS 2.5" SFF G2HS HDD	AC1	A2XD	Initial
	MC1		Initial
IBM 500GB 7.2K 6Gbps NL SAS 2.5" SFF G2HS HDD	AC1	A2XE	Initial
	MC1		Initial
IBM 300GB 10K 6Gbps SAS 2.5" SFF G2HS SED	AC1	A2XF	Initial
	MC1		Initial
Brocade 16Gb FC Single-port HBA for IBM System x	AC1	A2XU	Initial
	MC1		
Brocade 16Gb FC Dual-port HBA for IBM System x	AC1	A2XV	Initial
	MC1		
IBM 146GB 15K 6Gbps SAS 2.5" SFF G2HS SED	AC1	A2ZK	Initial
	MC1		Initial
Server RAID M5110 SAS/SATA Controller for IBM System x	AC1	A347	Initial
	MC1		Initial
IBM USB Memory Key for VMware ESXi 5.0 Update1	AC1	A383	Initial
	MC1		Initial
Intel Xeon Processor E5-1410 4C 2.8GHz 10MB Cache 1333MHz 80W	AC1	A3AJ	Initial
	MC1		
IBM 550W Redundant PSU (Optional)	AC1	A3DQ	Initial
	MC1		Initial
IBM 750W Redundant PSU (Optional)	AC1	A3DR	Initial
	MC1		Initial
Essential Package	AC1	A3E2	Initial
	MC1		Initial
Enhanced Package	AC1	A3E3	Initial
	MC1		
Elite Package	AC1	A3E4	Initial
	MC1		Initial
Essential Package	AC1	A3E5	Initial
	MC1		Initial
Enhanced Package	AC1	A3E6	Initial
	MC1		Initial
Elite Package	AC1	A3E7	Initial
	MC1		Initial

2nd CPU FAN

	AC1	A3F4	Initial
	MC1		Initial
14 pin to 16 pin interposer cable for fixed PSU	AC1	A3F7	Initial
	MC1		Initial

The following are features already announced for the 7382 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support	CSU
AC1	AC1			Yes
MC1	MC1			Yes
Addl Intel Xeon Processor 80W Upgrade Kit	E5-2403	4C 1.8GHz 10MB	Initial Initial	
Addl Intel Xeon Processor 80W Upgrade Kit	E5-2407	4C 2.2GHz 10MB	Initial Initial	
Addl Intel Xeon Processor 95W Upgrade Kit	E5-2420	6C 1.9GHz 15MB	Initial Initial	
Addl Intel Xeon Processor 95W Upgrade Kit	E5-2430	6C 2.2GHz 15MB	Initial Initial	
Addl Intel Xeon Processor 95W Upgrade Kit	E5-2440	6C 2.4GHz 15MB	Initial Initial	
Addl Intel Xeon Processor 60W Upgrade Kit	E5-2430L	6C 2.0GHz 15MB	Initial Initial	
Addl Intel Xeon Processor 70W Upgrade Kit	E5-2450L	8C 1.8GHz 20MB	Initial Initial	
Addl Intel Xeon Processor 95W Upgrade Kit	E5-2450	8C 2.1GHz 20MB	Initial Initial	
Addl Intel Xeon Processor 95W Upgrade Kit	E5-2470	8C 2.3GHz 20MB	Initial Initial	
IBM System x3300 Simple-Swap SATA Kit	4x3.5"		Initial Initial	
IBM System x3300 2nd 2.5" HS Upgrade Kit			Initial Initial	
Redundant System FAN			Initial Initial	
Tower to Rack Kit			Initial Initial	

## Single Entity Offerings (SEO)

Description	SEO Number
System x3300 M4	7382A2U 7382B2U 7382C2U 7382D2U 7382D4U 7382F2U
System x3300 M4 Express	7382EAU 7382EBU 7382ECU

### Option SEOs

Description	Part
IBM System x3300 3.5" HS Kit for HW/SW RAID	00D2591
Redundant System FAN	00D2593
Tower to Rack Kit	00D2594
IBM System x3300 Simple-Swap SATA Kit 4x3.5"	00D2590
IBM System x3300 2nd 2.5" HS Upgrade Kit	00D2592
Intel Xeon Processor E5-2403 4C 1.8GHz 10MB Cache 1066MHz 80W	00D2581
Intel Xeon Processor E5-2407 4C 2.2GHz 10MB Cache 1066MHz 80W	00D2582
Intel Xeon Processor E5-2420 6C 1.9GHz 15MB Cache 1333MHz 95W	00D2583
Intel Xeon Processor E5-2430 6C 2.2GHz 15MB Cache 1333MHz 95W	00D2584
Intel Xeon Processor E5-2440 6C 2.4GHz 15MB Cache 1333MHz 95W	00D2585
Intel Xeon Processor E5-2430L 6C 2.0GHz 15MB Cache 1333MHz 60W	00D2586
Intel Xeon Processor E5-2450L 8C 1.8GHz 20MB Cache 1600MHz 70W	00D2587
Intel Xeon Processor E5-2450 8C 2.1GHz 20MB Cache 1600MHz 95W	00D2588
Intel Xeon Processor E5-2470 8C 2.3GHz 20MB Cache 1600MHz 95W	00D2589

### **Maintenance charges**

For additional information on maintenance and pricing, please contact your IBM Sales Representative or your IBM Business Partner, or call 1-800-IBM-CALL (1-800-426-2255).

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

### **ServicePac for Warranty and Maintenance**

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Refer to the following IBM website for applicable ServicePac information

[http://www-935.ibm.com/services/us/its/html/servicepac\\_americas.html](http://www-935.ibm.com/services/us/its/html/servicepac_americas.html)

Machine	Service Description	ServicePac SEO	ServicePac MTM
7382	3 Year Onsite Repair 9x5 4 Hour Response	46Y1608	675684C
7382	3 Year Onsite Repair 24x7 4 Hour Response	46Y1609	675684D

7382	3 Year Onsite Repair 24x7 2 Hour Response	46Y1610	675684F
7382	4 Year Onsite Repair 9x5 Next Business Day	46Y1611	675684G
7382	4 Year Onsite Repair 9x5 4 Hour Response	46Y1612	675684H
7382	4 Year Onsite Repair 24x7 4 Hour Response	46Y1613	675684J
7382	4 Year Onsite Repair 24x7 2 Hour Response	46Y1614	675684K
7382	5 Year Onsite Repair 9x5 Next Business Day	46Y1615	675684M
7382	5 Year Onsite Repair 9x5 4 Hour Response	46Y1616	675684N
7382	5 Year Onsite Repair 24x7 4 Hour Response	46Y1617	675684P
7382	5 Year Onsite Repair 24x7 2 Hour Response	46Y1618	675684Q
7382	3 Year Onsite Repair 24x7 4 Hour Response with HDDR	46Y1619	675684R
7382	4 Year Onsite Repair 24x7 4 Hour Response with HDDR	46Y1620	675684S
7382	4 Year Onsite Repair 9x5 Next Business Day with HDDR	46Y1621	675684T
7382	5 Year Onsite Repair 24x7 4 Hour Response with HDDR	46Y1622	675684U
7382	5 Year Onsite Repair 9x5 Next Business Day Response	46Y1623	675684V

SERVICEPAC FOR Maintenance Agreement

7382	1 Year Onsite Repair 9x5 Next Business Day	46Y1624	6756F2A
7382	1 Year Onsite Repair 9x5 4 Hour Response	46Y1625	6756F2B
7382	1 Year Onsite Repair 24x7 4 Hour Response	46Y1626	6756F2C
7382	1 Year Onsite Repair 24x7 2 Hour Response	46Y1627	6756F3D
7382	2 Year Onsite Repair 9x5 Next Business Day	46Y1628	6756F2F
7382	2 Year Onsite Repair 9x5 4 Hour Response	46Y1629	6756F2G
7382	2 Year Onsite Repair 24x7 4 Hour Response	46Y1630	6756F2H
7382	2 Year Onsite Repair 24x7 2 Hour Response	46Y1631	6756F2J
7382	1 Year Onsite Repair 24x7 4 Hour Response with HDDR	46Y1632	6756F2K
7382	2 Year Onsite Repair 24x7 4 Hour Response with HDDR	46Y1633	6756F2M
7382	1 Year Onsite Repair 9x5 Next Business Day with HDDR	46Y1634	6756F2N
7382	2 Year Onsite Repair 9x5 Next Business Day with HDDR	46Y1635	6756F2P

SERVICEPAC FOR Essential Support: Warranty and Maintenance Option  
plus Remote Technical Support

7382	3 Year Essential Support 24x7 4 Hour Response	46Y1636	N/A
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SERVICEPAC FOR Essential Support: Maintenance plus Remote Technical  
Support

7382	1 Year Essential Support 24x7 4 Hour Response	46Y1637	N/A
7382	1 Year Essential Support 9x5 Next Business Day Response	46Y1638	N/A

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

Refer to the following IBM website for applicable ServicePac information

<https://www-304.ibm.com/sales/gss/download/spst/servicepac/extProductSelectorWWW.do>

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