

# IBM System x3550 M2 servers feature new Intel Xeon 5500 series processors with new, next-generation microarchitecture design featuring QuickPath Interconnect (QPI) and Turbo Boost technology

## Table of contents

<a href="#">1 At a glance</a>	<a href="#">21 Publications</a>
<a href="#">2 Overview</a>	<a href="#">22 Services</a>
<a href="#">3 Key prerequisites</a>	<a href="#">23 Technical information</a>
<a href="#">3 Planned availability date</a>	<a href="#">33 Terms and conditions</a>
<a href="#">3 Description</a>	<a href="#">39 Pricing</a>
<a href="#">8 Product positioning</a>	<a href="#">57 Order now</a>
<a href="#">9 Product number</a>	

## At a glance



Power, scalability, control, and serviceability for dynamic Web-serving and On Demand Business applications:

- Ultrathin, high-availability, rack-optimized, 1U platform
- Powerful Intel® Xeon® 5500 Series dual- or quad-core processor with new microarchitecture design featuring Quick Path Interconnect (QPI) technology with Intel Extended Memory 64 Technology (EM64T)
- 1 GB, 2 GB, 4 GB, or 8 GB (optional) of high-speed DDR3 SDRAM Registered DIMM memory; sixteen DIMM slots that support up to 128 GB
- Support for hot-swap SAS/SATA HDDs
- Six 2.5-inch hot-swap HDD bays
- Two PCI-Express Gen 2 x16 slots (one full height, half length and one low profile); both slots convertible to PCI-X via riser card option 64-bit/133 MHz
- 675-watt, auto-ranging power supply (redundant power supply optional)
- Integrated systems management processor (IMM)
- Integrated dual GB Ethernet standard plus two optional on planar for scalable network communication
- One 16550A-compatible serial port (rear), four USB ports (two front and two rear), and two video ports (one front and one rear)

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

---

## Overview

---

New models of the System x3550 M2 feature new Intel dual-core and quad-core processors.

This 1U-high, rack-optimized server features superior power optimized performance and leadership virtualization and systems management for business critical workloads built on IBM X-Architecture®.

### **Optimized for energy efficiency and performance**

Apply new, innovative energy-smart design with powerful high-performance processors, large capacity of high-performing DDR3 memory, and a balanced feature set ideal for many general business applications:

- Intel Xeon Processor E5502
- Intel Xeon Processor E5504
- Intel Xeon Processor E5506
- Intel Xeon Processor E5520
- Intel Xeon Processor L5520
- Intel Xeon Processor L5506
- Intel Xeon Processor E5530
- Intel Xeon Processor E5540
- Intel Xeon Processor X5550
- Intel Xeon Processor X5560
- Intel Xeon Processor X5570
- New energy efficient design incorporating low 675W and 92% efficient power supplies, 6 cooling fans (3 banks of counter-rotating dual fans), altimeter (barometric pressure sensor), and energy-efficient planar components to lower operational costs
- Highly functional chipset optimized for better application computing supporting general business workloads
- Sixteen DIMM slots that enable you to deploy up to 128 GB of DDR3 SDRAM Registered DIMM memory, with 2 GB, 4 GB, or 8 GB (optional) of memory (model dependent)
- SAS and SATA HDDs, and SSD with RAID support
- Integrated dual GB Ethernet standard plus two optional on planar for scalable network communication
- Embedded VMware ESXi 3.5 hypervisor (connector on motherboard) activated with optional 2 GB USB key for leadership virtualization

### **Manage with efficiency**

High availability, manageability, and serviceability features help diagnose problems quickly, even from remote locations:

- IBM Systems Director Active Energy Manager<sup>™</sup> (AEM) for advanced power management including real time monitoring, trending, and reporting of power
- Snoop filters to boost processor performance
- Integrated SAS controller supporting up to six 2.5-inch hot-swap HDD with RAID solutions
- IPMI 2.0-compliant full IMM for enterprise-class systems management to monitor, maintain, and maximize server availability, including full remote systems management
- Optional IBM Virtual Media Key to enable the remote presence and blue-screen capture features

- Predictive Failure Analysis® (PFA) on six selected components that warns of problems before they occur
- Fast and easy servicing: Innovative light path diagnostics, improved onboard diagnostics, and LED diagnostic panel

### **Ultimate fault tolerant protection**

- Hot-swap, redundant fans with calibrated vectored cooling, to keep components cool, and simplified fan replacement
- Optional hot-swap, redundant power supplies to help reduce downtime
- High-performance hot-swap SAS and SATA HDDs and SSD
- ServerGuide<sup>tm1</sup>, IBM Director, and Web support
- Three-year, Customer Replaceable Unit (CRU) and on-site labor<sup>2</sup>, limited warranty<sup>3</sup>; optional warranty service upgrades available

<sup>1</sup> The Microsoft® Windows® Preinstallation Environment software included as part of ServerGuide software, may be used for boot, diagnostic, setup, restoration, installation, configuration, test, or disaster recovery purposes only. **Note:** The Microsoft Windows Preinstallation Environment software contains a security feature that will cause an end-user customer's system to reboot without prior notification to the end-user customer after 24 hours of continuous use of the Microsoft Windows Preinstallation Environment. During routine usage of ServerGuide, which does not usually require usage of the Microsoft Windows Preinstallation Environment software for such an extended time period, this condition should not occur.

<sup>2</sup> You may be asked certain diagnostic questions before a technician is sent.

<sup>3</sup> For information on IBM's Statement of Limited Warranty, call 800-IBM-SERV (426-7378) or contact your IBM representative or reseller. Copies are available upon request.

---

## **Key prerequisites**

- Monitor
- USB keyboard
- USB mouse

**Note:** PS/2 style keyboard and mouse are not supported.

---

## **Planned availability date**

April 30, 2009

---

## **Description**

### **System x3550 M2-related options**

The System x3550 M2 server features an Intel Xeon dual- or quad-core processor that supports internal processing speeds of up to 2.93 GHz, and processing operations to memory up to 1333 MHz. They contain integrated, full-speed 4 MB or 8 MB ECC L2 cache.

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

These servers are high-throughput, network servers with excellent scalability when you add memory and a second processor.

Two Intel Xeon connectors are standard on the system board to support installation of a second processor. High-speed DDR3 SDRAM Registered DIMM memory is optimized for 800 MHz, 1066 MHz, or 1333 MHz processor-to-memory subsystem performance.

### Standard System x3550 M2 configurations

Model	Processor	Memory	HDD		HDD	Other
			GT/s	Interface		
7946-12x	1.86 GHz Cache: 4 MB	2 GB	4.80	SAS/SATA/SSD	2.5-in	Open bay hot-swap
7946-3Ax	2.13 GHz Cache: 4 MB	2 GB	4.80	SAS/SATA/SSD	2.5-in	Open bay hot-swap
7946-32x	2.26 GHz Cache: 8 MB	2 GB	5.86	SAS/SATA/SSD	2.5-in	Open bay hot-swap
7946-42x	2.26 GHz Cache: 8 MB	2 GB	5.86	SAS/SATA/SSD	2.5-in	Open bay hot-swap
7946-52x	2.4 GHz Cache: 8 MB	2 GB	5.86	SAS/SATA/SSD	2.5-in	Open bay hot-swap
7946-62x	2.53 GHz Cache: 8 MB	2 GB	5.86	SAS/SATA/SSD	2.5-in	Open bay hot-swap
7946-92x	2.93 GHz Cache: 8 MB	4 GB	6.40	SAS/SATA/SSD	2.5-in	Open bay hot-swap

#### Express Models

Model	Processor	Memory	HDD		HDD	Other
			GT/s	Interface		
7946-E1x	1.86 GHz Cache: 4 MB	4 GB	4.80	SAS/SATA/SSD	2.5-in	Open bay hot-swap
7946-E2x	2.4 GHz Cache: 8 MB	4 GB	4.80	SAS/SATA/SSD	2.5-in	Open bay hot-swap
7946-E3x	2.8 GHz Cache: 8 MB	8 GB	4.80	SAS/SATA/SSD	2.5-in	Open bay hot-swap

**Note:** All models contain a SATA Combo optical drive.

### Additional features

- System board containing sixteen DIMM connectors, supporting 1 GB, 2 GB, 4 GB, or 8 GB (optional) DDR3 SDRAM Registered DIMM memory, with:
  - Support for up to 128 GB of system memory
  - Support for Chipkill<sup>™</sup> memory
- 64-bit SAS controller
- SATA controller supporting one 12.7-mm (0.5-inch) CD-RW/DVD Combo drive
- SATA drive support that employs high-speed (up to 1.5 Gbps) dual differential pairs to communicate with simple-swap SATA HDDs
- Full-duplex Broadcom 5709 Dual Gigabit Ethernet PCIe controllers speeding network communications to LAN clients

The System x3550 M2 subsystems are tuned to provide solid system throughput from processor, to memory, to bus, to disk-intensive I/O. These features combined with multicore capability make this server an excellent choice for:

- Database
- E-mail collaboration
- Linux® clusters
- File/print
- Virtualization

### **High-availability and serviceability features**

The System x3550 M2 server subsystem delivers excellent reliability and serviceability features:

- Six 2.5-inch hot-swap SAS/SATA/SSD HDD bays
- Hot-swap, redundant cooling fans
- Optional hot-swap, redundant power supplies
- ECC DIMMs combined with an integrated ECC memory controller correcting many soft and hard single-bit memory errors, while minimizing disruption of service to LAN clients
- Chipkill memory to detect and correct many multibit memory errors, helping keep the server up and running, while taking the inoperative memory offline
- ECC L2 cache processors to improve data integrity and help reduce downtime
- PFA on HDD options, memory, and fans, to help alert the system administrator of an imminent component failure
- Dual Broadcom 5709 Gigabit Ethernet controllers that support:
  - Failover, Adapter Fault Tolerance (AFT)
  - PXE 2.0 Boot Agent
  - IPMI 2.0 (Microsoft Windows only)
  - Wake on LAN®
  - Load balancing or teaming
  - TOE
- Worldwide, voltage-sensing 675-watt power supply with auto restart
- Up to six sets (two fans per set) of counter-rotating fans that provide excellent cooling for added reliability:
  - Each power supply comes with its own internal cooling fans.
  - Six fan sets cool a single processor, memory, and HDD bays.
  - Fan speed controls are incorporated to reduce noise, while reducing system temperatures.
- Integrated systems management processor for diagnostic, reset, POST, and auto recovery functions; monitoring temperature, voltage, and fan speed; alerts generated when thresholds are exceeded (refer to the [Limitations](#) section for restrictions)
- Information LED panel giving visual indications of system well-being
- Light path diagnostics and onboard diagnostics providing an error log that can help find a failing component, helping reduce downtime and service costs
- Easy access to system board, adapter cards, processor, and memory
- CPU failure recovery in dual-socket configurations:
  - Forces failed processor offline
  - Automatic server reboot capability
  - Generates alerts
  - Continues operations with the working processor

### **Expandability and growth**

The System x3550 M2 server contains high levels of function and storage capacity for a 1U, 19-inch rack-drawer package. It supports customer installation of adapters, processors, memory, and HDD options. Functions such as SVGA video, SAS, and two Gigabit Ethernet controllers are integrated on the system board. Features include:

- Rack-optimized design for 19-inch wide, industry-standard rack cabinets supported in the NetBAY42 and NetBAY25
- Sixteen DIMM connectors capable of support for up to 128 GB of system memory

- Six 2.5-inch slim-high, hot-swap SAS/SATA/SSD HDD bays
- Internal data storage up to 1.8 TB (using six 300 GB SATA 2.5-inch HDDs)
- 12.7-mm (0.5-inch) CD-RW/DVD Combo drive

## **Systems management**

### **Integrated Management Module (IMM)**

The System x3550 M2 includes an Integrated Management Module (IMM) that provides industry-standard Intelligent Platform Management Interface (IPMI) 2.0-compliant systems management. The IMM comes standard, and shares one of the two onboard Ethernet ports for access. The IMM can be accessed via software that is compatible with IPMI 2.0 (xCAT, for example).

Features and benefits:

- Monitoring:
  - System voltages
  - Battery voltage
  - System temperatures
- Fan speed control.
- Fan tachometer monitor.
- Good Power signal monitor.
- System ID and planar version detection.
- System power and reset control.
- NMI detection (system interrupts).
- 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 also 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 e-mail, IPMI PETS, and SNMP.

In addition, you can purchase an optional IBM Virtual Media Key to enable the remote presence and blue-screen capture features. You can add this key to the server through a connector on the planar. This key enables easy console redirection with text and graphics, keyboard, and mouse support (operating system must support USB) over the system management LAN connections.

With video compression now built into the adapter hardware, the adapter allows the greater screen sizes and refresh rates that are usually in the marketplace. This feature helps enable the user to display server activities from power-on to full operation remotely with remote user interaction at virtually any time.

### **IBM Director**

The System x3550 M2 server also features 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 to access and manage physically dispersed

IT assets more efficiently over the Internet. It can help reduce costs through potentially:

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

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

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

- PFA-enabled critical hardware components
- Temperature
- Voltage
- Fan speed
- Light path diagnostics

IT administrators have comprehensive, virtual on-site control of System x® servers with the ability to remotely:

- Access the server, often regardless of its status
- Inventory and display detailed system and component information
- View server bootup during POST
- Browse and delete logs of events and errors
- Reset or power cycle the server
- Monitor and set thresholds on server health including:
  - Operating system load
  - POST time-out
  - Voltage
  - Temperature
- Set proactive alerts for critical server events including PFA on:
  - Memory
  - Fans
  - Power supplies
  - HDDs
- Define automated actions, such as:
  - Send e-mail or page to an administrator
  - Execute a command or program
  - Pop up an error message to the IBM Director console
- Flash BIOS
- Monitor and graph the use of server resources, such as:
  - Memory
  - Processor
  - HDDs
- Identify potential performance bottlenecks and react to prevent downtime

IBM Director Agent integrates into leading workgroup and enterprise systems management environments via upward integration modules (available from IBM and

third parties). Advanced management capabilities built into System x servers are available through:

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

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

The System x3550 M2 server includes a number of 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 over the long haul. IBM can help your company maintain ownership of technology leadership network servers.

- IBM CRU and on-site, three-year limited warranty with next-business-day (NBD) service (same-business-day service optionally available) helps protect your investment if a problem occurs. This service also includes replacement of parts identified through Predicted Failure Analysis (PFA).
- The ServerProven<sup>4</sup> program lets you confidently configure your server with various devices and operating systems. This program provides compatibility information from actual testing of the System x3550 M2 server with various adapters and devices.
- The Web-based ServerGuide includes online publications, in addition to utilities and drivers that enable assisted loading of popular network operating systems.
- Electronic support on the Web provides additional support in an easy-to-use format.

<sup>4</sup>IBM makes no warranties, expressed or implied, regarding non-IBM products and services that are ServerProven®, including but not limited to the implied warranties of merchantability and fitness for a particular purpose. These products are offered and warranted solely by third parties.

---

## **Product positioning**

---

IBM's 3550 M2 is a 1U, dual socket rack server for single or multiple business-critical application hosting built on innovative IBM X-Architecture leveraging Intel Quick Path Interconnect (QPI) technology. Featuring power-optimized, high-performance Intel Xeon 5500 quad- and dual-core processors and a leadership, energy-efficient design with balanced functionality, the x3550 M2 can reduce cost, improve service, and allow you to manage risk easily and simply.

The x3550 M2 is targeted at large-enterprise, mid-market, and SMB rack customers looking to optimize their IT budgets, and is designed for single or multiple business-critical application hosting and virtualized, non-blade environments.

### **Optimized for speed**

The new System x3550 M2 server offers new levels of fast Intel Xeon dual- and quad-core processors with up to 6.4 GT/s and lower power for datacenter environments and collaboration applications. This server is uniquely optimized for better application computing with a highly functional chipset and sixteen DIMM slots for a maximum of 128 GB of fully buffered DDR3 SDRAM Registered DIMM memory.

### **Innovation comes standard**

- Boost application efficiency with snoop filters that free up cache and improve processor performance.



- Supercharged TOE optimizes system performance by offloading protocol processing.
- A drop-down light path diagnostics panel improves in-rack manageability and allows easy problem identification.

### Ultimate fault tolerant protection

- Memory mirroring feature enables you to increase memory reliability.
- Integrated SAS controller with RAID 0, 1, and 1E on hot-swap SAS models helps safeguard your data at no additional cost.
- Simple-swap SATA models support JBOD (Just A Bunch of Disks) and Linux operating systems.

### Target applications

- Database
- E-mail collaboration
- File/print
- Virtualization
- Linux clustering
- Scientific and technical computing

These powerful servers also meet traditional enterprise network server requirements, but with an added benefit of requiring less space.

---

## Product number

---

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:

Description	HIPO feature number
7946-AC1 Routing Code	4180
7946-MC1 Routing Code	4181

The following are newly announced features on the specified models of the IBM xSeries® 7946 machine type:

Description	MT	Model	Feature
7946-AC1	7946	AC1	
7946-MC1	7946	MC1	
Optical Blank Bezel	7946	AC1 MC1	0906
NetXtreme II 1000 Express G Ethernet Adapter- PCIe	7946	AC1 MC1	1485
PRO/1000 GT Dual Port Server Adapter by Intel-PCI-X	7946	AC1 MC1	1579
PRO/1000 GT Quad Port Server Adapter by Intel-PCI-X	7946	AC1 MC1	1580
Emulex 4GB FC Single-Port PCI-E HBA for IBM System x	7946	AC1 MC1	1698
Emulex 4GB FC Dual-Port PCI-E HBA for IBM System x	7946	AC1 MC1	1699
EMEA Long Leadtime Configurations	7946	AC1 MC1	1763
Hungary CHW plant 9SH	7946	AC1 MC1	1764
Guad CHW plant 9KQ	7946	AC1 MC1	1765
ISTC CHW 9K2	7946	AC1	1766

		MC1	
RTP CHW 9NR	7946	AC1	1767
		MC1	
Offload Manufacturing to Guadalajara HVEC	7946	AC1	1768
		MC1	
Offload Manufacturing to RTP HVEC	7946	AC1	1769
		MC1	
Offload Manufacturing to ISTC	7946	AC1	1770
		MC1	
Routing for AP Foxconn	7946	AC1	1771
		MC1	
Capacity Scheduling Service	7946	AC1	1772
		MC1	
Custom SLA Scheduling Service	7946	AC1	1796
		MC1	
NVIDIA Quadro FX 1700 3D Graphics Card	7946	AC1	1822
		MC1	
NVIDIA Quadro FX 570	7946	AC1	1823
		MC1	
Redundant 675W Power supply	7946	AC1	1999
		MC1	
2U Bracket for NetXtreme II 1000 Express Ethernet Adapter	7946	AC1	2048
		MC1	
System Documentation and Software-US English	7946	AC1	2161
		MC1	Custom Asset Tagging - Standard
		MC1	
Custom Asset Tagging - Enhanced	7946	AC1	2201
		MC1	
Custom Image Load - Server	7946	AC1	2204
		MC1	
Custom Media Shipgroup	7946	AC1	2206
		MC1	
Request for Global Trade Number (UPC or EAN)	7946	AC1	2207
		MC1	
Custom Software/Firmware Setting - Standard	7946	AC1	2208
		MC1	
Custom Software/Firmware Setting - Enhanced	7946	AC1	2209
		MC1	
Custom RAID Configuration	7946	AC1	2212
		MC1	
Custom Labeling	7946	AC1	2220
		MC1	
Custom Palletization	7946	AC1	2221
		MC1	
Request for a new Vendor Logo Hardware	7946	AC1	2247
		MC1	
Request for an existing IBM Feature	7946	AC1	2248
		MC1	
Request for an existing Public RPQ	7946	AC1	2249
		MC1	
RAID Configuration	7946	AC1	2302
		MC1	
Rack Installation of 1U Component	7946	AC1	2305
		MC1	
Department of Defense UID Label	7946	AC1	2320
		MC1	
TCPIP Off Load Engine (TOE)	7946	AC1	2500
		MC1	
System Packaging-WW	7946	AC1	2577
		MC1	
2U Bracket for QLogic iSCSI Single-Port PCIe HBA for IBM System x	7946	AC1	2754
		MC1	
2U Bracket for IBM 10 GbE PCIe SR Server Adapter	7946	AC1	2755
		MC1	
2U Bracket for IBM SAS HBA Controller	7946	AC1	2769
		MC1	
PRO/1000 PT Dual Port Server Adapter by Intel	7946	AC1	2944
		MC1	
PRO/1000 PT Quad Port Server Adapter	7946	AC1	2974
		MC1	
PRO/1000 PF Server Adapter	7946	AC1	2975
		MC1	

QLogic iSCSI Single Port PCIe HBA for IBM System x	7946	AC1 MC1	2976
QLogic iSCSI Dual Port PCIe HBA for IBM System x	7946	AC1 MC1	2977
IBM 10 GbE PCIe SR Server Adapter	7946	AC1 MC1	2978
NetXtreme II 1000 Express Dual Port Ethernet Adapter	7946	AC1 MC1	2995
Install in Rack 01	7946	AC1 MC1	3101
Install in Rack 02	7946	AC1 MC1	3102
Install in Rack 03	7946	AC1 MC1	3103
Install in Rack 04	7946	AC1 MC1	3104
Install in Rack 05	7946	AC1 MC1	3105
Install in Rack 06	7946	AC1 MC1	3106
Install in Rack 07	7946	AC1 MC1	3107
Install in Rack 08	7946	AC1 MC1	3108
Install in Rack 09	7946	AC1 MC1	3109
Install in Rack 10	7946	AC1 MC1	3110
Install in Rack 11	7946	AC1 MC1	3111
Install in Rack 12	7946	AC1 MC1	3112
Install in Rack 13	7946	AC1 MC1	3113
Install in Rack 14	7946	AC1 MC1	3114
Install in Rack 15	7946	AC1 MC1	3115
Install in Rack 16	7946	AC1 MC1	3116
Install in Rack 17	7946	AC1 MC1	3117
Install in Rack 18	7946	AC1 MC1	3118
Install in Rack 19	7946	AC1 MC1	3119
Install in Rack 20	7946	AC1 MC1	3120
Install in Rack 21	7946	AC1 MC1	3121
Install in Rack 22	7946	AC1 MC1	3122
Install in Rack 23	7946	AC1 MC1	3123
Install in Rack 24	7946	AC1 MC1	3124
Install in Rack 25	7946	AC1 MC1	3125
Install in Rack 26	7946	AC1 MC1	3126
Install in Rack 27	7946	AC1 MC1	3127
Install in Rack 28	7946	AC1 MC1	3128
Install in Rack 29	7946	AC1 MC1	3129
Install in Rack 30	7946	AC1 MC1	3130
Install in Rack 31	7946	AC1 MC1	3131
Install in Rack 32	7946	AC1 MC1	3132
Install in Rack 33	7946	AC1	3133

Install in Rack 34	7946	MC1 AC1	3134
Install in Rack 35	7946	MC1 AC1	3135
Install in Rack 36	7946	MC1 AC1	3136
Install in Rack 37	7946	MC1 AC1	3137
Install in Rack 38	7946	MC1 AC1	3138
Install in Rack 39	7946	MC1 AC1	3139
Install in Rack 40	7946	MC1 AC1	3140
Install in Rack 41	7946	MC1 AC1	3141
Install in Rack 42	7946	MC1 AC1	3142
Install in Rack 43	7946	MC1 AC1	3143
Install in Rack 44	7946	MC1 AC1	3144
Install in Rack 45	7946	MC1 AC1	3145
Install in Rack 46	7946	MC1 AC1	3146
Install in Rack 47	7946	MC1 AC1	3147
Install in Rack 48	7946	MC1 AC1	3148
Install in Rack 49	7946	MC1 AC1	3149
Install in Rack 50	7946	MC1 AC1	3150
Install in Rack 51	7946	MC1 AC1	3151
Install in Rack 52	7946	MC1 AC1	3152
Install in Rack 53	7946	MC1 AC1	3153
Install in Rack 54	7946	MC1 AC1	3154
Install in Rack 55	7946	MC1 AC1	3155
Install in Rack 56	7946	MC1 AC1	3156
Install in Rack 57	7946	MC1 AC1	3157
Install in Rack 58	7946	MC1 AC1	3158
Install in Rack 59	7946	MC1 AC1	3159
Install in Rack 60	7946	MC1 AC1	3160
Install in Rack 61	7946	MC1 AC1	3161
Install in Rack 62	7946	MC1 AC1	3162
Install in Rack 63	7946	MC1 AC1	3163
Install in Rack 64	7946	MC1 AC1	3164
Rack location U01	7946	MC1 AC1	3201
Rack location U02	7946	MC1 AC1	3202
Rack location U03	7946	MC1 AC1	3203
Rack location U04	7946	MC1 AC1	3204
Rack location U05	7946	MC1 AC1	3205
Rack location U06	7946	MC1 AC1	3206

Rack location U07	7946	MC1 AC1	3207
Rack location U08	7946	MC1 AC1	3208
Rack location U09	7946	MC1 AC1	3209
Rack location U10	7946	MC1 AC1	3210
Rack location U11	7946	MC1 AC1	3211
Rack location U12	7946	MC1 AC1	3212
Rack location U13	7946	MC1 AC1	3213
Rack location U14	7946	MC1 AC1	3214
Rack location U15	7946	MC1 AC1	3215
Rack location U16	7946	MC1 AC1	3216
Rack location U17	7946	MC1 AC1	3217
Rack location U18	7946	MC1 AC1	3218
Rack location U19	7946	MC1 AC1	3219
Rack location U20	7946	MC1 AC1	3220
Rack location U21	7946	MC1 AC1	3221
Rack location U22	7946	MC1 AC1	3222
Rack location U23	7946	MC1 AC1	3223
Rack location U24	7946	MC1 AC1	3224
Rack location U25	7946	MC1 AC1	3225
Rack location U26	7946	MC1 AC1	3226
Rack location U27	7946	MC1 AC1	3227
Rack location U28	7946	MC1 AC1	3228
Rack location U29	7946	MC1 AC1	3229
Rack location U30	7946	MC1 AC1	3230
Rack location U31	7946	MC1 AC1	3231
Rack location U32	7946	MC1 AC1	3232
Rack location U33	7946	MC1 AC1	3233
Rack location U34	7946	MC1 AC1	3234
Rack location U35	7946	MC1 AC1	3235
Rack location U36	7946	MC1 AC1	3236
Rack location U37	7946	MC1 AC1	3237
Rack location U38	7946	MC1 AC1	3238
Rack location U39	7946	MC1 AC1	3239
Rack location U40	7946	MC1 AC1	3240
Rack location U41	7946	MC1 AC1	3241
Rack location U42	7946	MC1 AC1	3242
DS4000 FC 4Gb PCI-X Single Port HBA	7946	MC1 AC1	3550

DS4000 FC 4Gb PCI-X Dual Port HBA	7946	AC1	3551
		MC1	
Server RAID-MR10M SAS/SATA Controller	7946	AC1	3559
		MC1	
2U Bracket for Emulex 4Gb Single-Port PCI-X or PCI-E HBA for Sys x	7946	AC1	3563
		MC1	
2U Bracket for Emulex 4Gb Dual-Port PCI-X or PCI-E HBA for Sys x	7946	AC1	3564
		MC1	
2U Bracket for QLogic 4-Gbps FC Single-Port PCI-E HBA	7946	AC1	3565
		MC1	
2U Bracket for QLogic 4-Gbps FC Dual-Port PCI-E HBA	7946	AC1	3566
		MC1	
QLogic 4Gb FC Single-Port PCIe HBA for IBM System x	7946	AC1	3567
		MC1	
QLogic 4Gb FC Dual-Port PCIe HBA for IBM System x	7946	AC1	3568
		MC1	
Server RAID-MR10i SAS/SATA Controller	7946	AC1	3571
		MC1	
Server RAID-BR10i SAS/SATA Controller	7946	AC1	3577
		MC1	
QLogic 8Gb FC Single-port HBA for IBM System x	7946	AC1	3578
		MC1	
QLogic 8Gb FC Dual-port HBA for IBM System x	7946	AC1	3579
		MC1	
Emulex 8Gb FC Single-port HBA for IBM System x	7946	AC1	3580
		MC1	
Emulex 8Gb FC Dual-port HBA for IBM System x	7946	AC1	3581
		MC1	
IBM 3Gb SAS HBA Controller v2	7946	AC1	3583
		MC1	
Server RAID-MR10is VAULT SAS/SATA Controller	7946	AC1	3584
		MC1	
Dual port 1Gb Ethernet Daughter Card	7946	AC1	3585
		MC1	
Brocade 8Gb FC Single-port HBA for IBM System x	7946	AC1	3589
		MC1	
Brocade 8Gb FC Dual-port HBA for IBM System x	7946	AC1	3591
		MC1	
Dual-Core Intel Xeon E5502 (1.86GHz 4MB L2 Cache 800MHz FSB 80w)	7946	AC1	3637
		MC1	
Quad-Core Intel Xeon E5506 (2.13GHz 4MB L2 Cache 800MHz FSB 80w)	7946	AC1	3638
		MC1	
Quad-Core Intel Xeon L5520 (2.26GHz 8MB L2 Cache 1066MHz FSB LV 60w)	7946	AC1	3639
		MC1	
Quad-Core Intel Xeon E5530 (2.4GHz 8MB L2 Cache 1066MHz FSB 80w)	7946	AC1	3640
		MC1	
Quad-Core Intel Xeon X5550 (2.66GHz 8MB L2 Cache 1333MHz FSB 95w)	7946	AC1	3641
		MC1	
Quad-Core Intel Xeon X5560 (2.8GHz 8MB L2 Cache 1333MHz FSB 95w)	7946	AC1	3642
		MC1	
Quad-Core Intel Xeon X5570 (2.93GHz 8MB L2 Cache 1333MHz FSB 95w)	7946	AC1	3643
		MC1	
1m LC-LC Fiber Cable (networking)	7946	AC1	3700
5m LC-LC Fiber Cable (networking)	7946	AC1	3701
25m LC-LC Fiber Cable (networking)	7946	AC1	3702
1m LC-LC Fiber Cable	7946	AC1	3703
		MC1	
5m LC-LC Fiber Cable	7946	AC1	3704
		MC1	
25m LC-LC Fiber Cable	7946	AC1	3705
		MC1	

IBM 50GB SATA 2.5" SFF Slim-HS High IOPS SSD	7946	AC1	3745
		MC1	
IBM 31.4GB 2.5" Solid State Drive	7946	AC1	3747
		MC1	
3m Console Switch Cable (USB)	7946	AC1	3751
		MC1	
1.5M USB Conversion Cable Set	7946	AC1	3757
		MC1	
1.8m Black Cat5e Cable	7946	AC1	3760
		MC1	
3m Black Cat5e Cable	7946	AC1	3761
		MC1	
10m Black Cat5e Cable	7946	AC1	3762
		MC1	
Cyclades RJ45 -to- DB9 serial cable adapter	7946	AC1	3769
0.6m Yellow Cat5e Cable	7946	AC1	3791
		MC1	
1.5m Yellow Cat5e Cable	7946	AC1	3792
		MC1	
3m Yellow Cat5e Cable	7946	AC1	3793
		MC1	
10m Yellow Cat5e Cable	7946	AC1	3794
		MC1	
25m Yellow Cat5e Cable	7946	AC1	3795
		MC1	
0.6m Green Cat5e Cable	7946	AC1	3796
		MC1	
1.5m Green Cat5e Cable	7946	AC1	3797
		MC1	
3m Green Cat5e Cable	7946	AC1	3798
		MC1	
10m Green Cat5e Cable	7946	AC1	3799
		MC1	
25m Green Cat5e Cable	7946	AC1	3800
		MC1	
0.6m Blue Cat5e Cable	7946	AC1	3801
		MC1	
1.5m Blue Cat5e Cable	7946	AC1	3802
		MC1	
3m Blue Cat5e Cable	7946	AC1	3803
		MC1	
10m Blue Cat5e Cable	7946	AC1	3804
		MC1	
25m Blue Cat5e Cable	7946	AC1	3805
		MC1	
2U Bracket for NetXtreme II 10 GigE Express Fiber SR Adapter	7946	AC1	4029
		MC1	
2x3 2.5" HDD backplane for 1U	7946	AC1	4038
		MC1	
Slide Kit	7946	AC1	4039
		MC1	
GBM, CMA	7946	AC1	4040
		MC1	
System code Group BoM	7946	AC1	4041
		MC1	
Power Supply Blank Filler	7946	AC1	4042
		MC1	
2U bracket for Emulex 8Gb FC Single-port HBA for System x	7946	AC1	4047
		MC1	
2U bracket for Emulex 8Gb FC Dual-port HBA for System x	7946	AC1	4048
		MC1	
2U bracket for QLogic 8Gb FC Single-port HBA for System x	7946	AC1	4049
		MC1	
2U Bracket for NetXtreme II 1000 Express Dual Port Ethernet Adapter	7946	AC1	4055
		MC1	
2.5" HDD Filler Bezel	7946	AC1	4069
		MC1	
UltraSlim Enhanced SATA DVD-ROM	7946	AC1	4161
		MC1	

UltraSlim Enhanced SATA CD-RW / DVD-ROM Combo	7946	AC1 MC1	4162
UltraSlim Enhanced SATA Multi-Burner	7946	AC1 MC1	4163
IBM 1m LC-LC Fibre Channel Cable	7946	AC1 MC1	4282
IBM 5m LC-LC Fibre Channel Cable	7946	AC1 MC1	4283
IBM 25m LC-LC Fibre Channel Cable	7946	AC1 MC1	4284
InfiniBand 8 meter 4x Cable for IBM eServer BladeCenter	7946	AC1	4294
InfiniBand 4x Cable 3 meter for IBM eServer BladeCenter	7946	AC1	4296
Simple Swap Kit	7946	AC1 MC1	4319
PCI-X Riser Card slot 1 (support low profile adapter)	7946	AC1 MC1	4373
PCI-Express (1x16) Riser Card Slot 2 (support FH/HL adapter)	7946	AC1 MC1	4375
Customer Provided and Installed - Red Hat Enterprise Linux 4 ES for AMD64/EM64T	7946	AC1	4714
Customer Provided and Installed - Red Hat Enterprise Linux 4 WS for x86	7946	AC1	4732
Customer Provided and Installed - Microsoft Windows Server 2003 R2 Standard Edition	7946	AC1	4733
Customer Provided and Installed - Microsoft Windows Server 2003, Enterprise Edition	7946	AC1	4734
Customer Provided and Installed - Microsoft Windows Server 2003, Standard Edition	7946	AC1	4735
Customer Provided and Installed - Microsoft Windows Server 2003, Web Edition	7946	AC1	4736
Customer Provided and Installed - Microsoft Windows Server 2003, Enterprise x64 Edition	7946	AC1	4737
Customer Provided and Installed - Microsoft Windows Server 2003 R2 Enterprise x64 Edition	7946	AC1	4738
Customer Provided and Installed - Microsoft Windows Server 2003 R2 Standard x64 Edition	7946	AC1	4739
Customer Provided and Installed - Microsoft Windows Server 2003 R2 Enterprise Edition	7946	AC1	4740
Customer Provided and Installed - Red Hat Enterprise Linux 3 WS for x86	7946	AC1	4741
Customer Provided and Installed - Red Hat Enterprise Linux 4 WS for AMD64/EM64T	7946	AC1	4742
Customer Provided and Installed - Red Hat Enterprise Linux 4 AS for AMD64/EM64T	7946	AC1	4743
Customer Provided and Installed - SUSE LINUX Enterprise Server 9 for x86	7946	AC1	4744
Customer Provided and Installed - Red Hat Enterprise Linux 4 ES for x86	7946	AC1	4745
Customer Provided and Installed - Red Hat Enterprise Linux 4 AS for x86	7946	AC1	4746
Customer Provided and Installed - SUSE LINUX Enterprise Server 9 for AMD64/EM64T	7946	AC1	4747
Customer Provided and Installed - Microsoft Windows Server 2003, Standard x64 Edition	7946	AC1	4748
Customer Provided and Installed - NetWare 6.5 DO NOT USE - Microsoft windows Server 2003 R2, Web Edition	7946	AC1	4751
Customer Provided and Installed - Microsoft Windows Small Business Server 2003	7946	AC1	4758
Customer Provided and Installed - Red Hat Enterprise Linux 3 AS for x86	7946	AC1	4759
Customer Provided and Installed - VMware ESX Server 2.5	7946	AC1	4760
Customer Provided and Installed - Red Hat Enterprise Linux 3 ES for AMD64/EM64T	7946	AC1	4761
Customer Provided and Installed - Red Hat Enterprise Linux 3 AS for AMD64/EM64T	7946	AC1	4762
Customer Provided and Installed - Red Hat Enterprise Linux 3 ES for x86	7946	AC1	4763
Customer Provided and Installed - VMware ESX			



Server 3.0	7946	AC1	4764
Customer Provided and Installed - Red Hat			
Enterprise Linux 3 WS for AMD64/EM64T	7946	AC1	4765
InfiniBand 10 meter 4x Cable for IBM BladeCenter®	7946	AC1	4866
IBM Virtual Media Key	7946	AC1	5080
		MC1	
50 GB Simple Swap SATA SSD	7946	AC1	5197
		MC1	
NetXtreme II 10 GigE Express Fiber SR Adapter	7946	AC1	5451
		MC1	
IBM 73GB 15K 6Gbps SAS 2.5" SFF slim-HS HDD	7946	AC1	5522
		MC1	
IBM 146GB 15K 6Gbps SAS 2.5" SFF slim-HS HDD	7946	AC1	5536
		MC1	
IBM 146GB 10K 6Gbps SAS 2.5" SFF slim-HS HDD	7946	AC1	5537
		MC1	
IBM 73 GB 10K SAS 2.5" SFF slim-HS HDD	7946	AC1	5577
		MC1	
IBM 146 GB 10K SAS 2.5" SFF slim-HS HDD	7946	AC1	5578
		MC1	
IBM 73 GB 15K SAS 2.5" SFF slim-HS HDD	7946	AC1	5579
		MC1	
300GB 10K SATA 2.5" slim-HS HDD	7946	AC1	5595
		MC1	
IBM 300GB 10K 6Gbps SAS 2.5" SFF slim-HS HDD	7946	AC1	5599
		MC1	
Base	7946	AC1	5600
		MC1	
System Common planar for 1U/2U	7946	AC1	5653
		MC1	
Remote Battery Cable	7946	AC1	5862
		MC1	
ServerRAID-MR10i Li-Ion Battery	7946	AC1	5864
		MC1	
1.5m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable	7946	AC1	6201
		MC1	
2.8m, 10A/100-250V, C13 to IEC 320-C20 Rack Power Cable	7946	AC1	6204
		MC1	
Line cord - 4.3M, 10A/125V, C13 to NEMA 5-15P (US)	7946	AC1	6207
		MC1	
4.3m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable	7946	AC1	6263
		MC1	
2.8m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable	7946	AC1	6311
		MC1	
2.8m, 10A/120V, C13 to NEMA 5-15P (US) Line Cord	7946	AC1	6313
		MC1	
Rack power cable - 2.0m, 125-250V, C13 to IEC 320-C14 (WW)	7946	AC1	6316
		MC1	
Line cord - 1.8m, 10A/250V, C13 to NEMA 6-15P (US)	7946	AC1	6351
		MC1	
Line cord - 1.8M, 10A/125V, C13 to NEMA 5-15P (US)	7946	AC1	6369
		MC1	
Line cord - 2.8m, 10A/250V, C13 to NEMA 6-15P (US)	7946	AC1	6372
		MC1	
Quad-Core Intel Xeon E5504 (2.0GHz 4MB L2 Cache 800MHz FSB 80w)	7946	AC1	6990
		MC1	
Quad-Core Intel Xeon E5520 (2.26GHz 8MB L2 Cache 1066MHz FSB 80w)	7946	AC1	6991
		MC1	
Quad-Core Intel Xeon L5506 (2.13GHz 4MB L2 Cache 800MHz FSB LV 60w)	7946	AC1	6992
		MC1	
Quad-Core Intel Xeon E5540 (2.53GHz 8MB L2 Cache 1066MHz FSB 80w)	7946	AC1	6993
		MC1	
RAID 10 - Primary Array (SAS) - minimum of 4 HDDs required	7946	AC1	7074
		MC1	

RAID 10 - Secondary Array (SAS) - minimum of 4 HDDs required	7946	AC1 MC1	7075
2U bracket for QLogic 8Gb FC Dual-port HBA for System x	7946	AC1 MC1	7550
2U Bracket for Brocade 8Gb FC Single-port HBA for IBM System x	7946	AC1 MC1	7594
2U Bracket for Brocade 8Gb FC Dual-port HBA for IBM System x	7946	AC1 MC1	7595
Grouped Product	7946	AC1 MC1	7830
Customer Solution Center Services	7946	AC1 MC1	7831
No HDD Selected	7946	AC1 MC1	8026
Consolidate Shipment	7946	AC1 MC1	8031
e1350 Solution Component	7946	AC1	8034
Compute Node	7946	AC1 MC1	8036
Management Node	7946	AC1 MC1	8037
Storage Node	7946	AC1 MC1	8038
TAA Compliant Order	7946	AC1 MC1	8067
General Racking Solution	7946	AC1 MC1	8072
No SATA HDD Selected	7946	AC1 MC1	8080
No 2.5" SAS HDD Selected	7946	AC1 MC1	8081
No Publications Selected	7946	AC1 MC1	8086
RAID 1E - Primary Array (SAS) - minimum of 3 HDDs required	7946	AC1 MC1	8143
RAID 1E - Secondary Array (SAS) - minimum of 3 HDDs required	7946	AC1 MC1	8146
IBM 2 Button Optical wheel Mouse - Black - USB	7946	AC1 MC1	8912
IBM 3 Button Optical Mouse - Black - USB	7946	AC1 MC1	8913
Integrate in manufacturing	7946	AC1 MC1	8971
Ship Uninstalled (Safety)	7946	AC1 MC1	8972
No Internal RAID	7946	AC1 MC1	9012
Hot Spare	7946	AC1 MC1	9013
Enable Memory Mirroring	7946	AC1 MC1	9017
Internal SAS RAID - Setup by IBM	7946	AC1 MC1	9066
Internal SAS RAID - Setup by Customer	7946	AC1 MC1	9067
RAID 0 - SAS Primary Array - minimum of 2 HDD required	7946	AC1 MC1	8141
RAID 1 - SAS Primary Array - 2 HDDs required	7946	AC1 MC1	8142
RAID 5 - SAS Primary Array - minimum of 3 HDDs required	7946	AC1 MC1	7853
RAID 0 - SAS Secondary Array - minimum of 2 HDD required	7946	AC1 MC1	8144
RAID 1 - SAS Secondary Array - 2 HDDs required	7946	AC1 MC1	8145

RAID 5 - SAS Secondary Array - minimum of 3 HDDs required	7946	AC1	7854
		MC1	
Storage Subsystem ID 01	7946	AC1	9170
		MC1	
Storage Subsystem ID 02	7946	AC1	9171
		MC1	
Storage Subsystem ID 03	7946	AC1	9172
		MC1	
Storage Subsystem ID 04	7946	AC1	9173
		MC1	
Storage Subsystem ID 05	7946	AC1	9174
		MC1	
Storage Subsystem ID 06	7946	AC1	9175
		MC1	
Storage Subsystem ID 07	7946	AC1	9176
		MC1	
Storage Subsystem ID 08	7946	AC1	9177
		MC1	
Storage Subsystem ID 09	7946	AC1	9178
		MC1	
Storage Subsystem ID 10	7946	AC1	9179
		MC1	
Storage Subsystem ID 11	7946	AC1	9180
		MC1	
Storage Subsystem ID 12	7946	AC1	9181
		MC1	
Storage Subsystem ID 13	7946	AC1	9182
		MC1	
Storage Subsystem ID 14	7946	AC1	9183
		MC1	
Storage Subsystem ID 15	7946	AC1	9184
		MC1	
Storage Subsystem ID 16	7946	AC1	9185
		MC1	
Storage Subsystem ID 17	7946	AC1	9186
		MC1	
Storage Subsystem ID 18	7946	AC1	9187
		MC1	
Storage Subsystem ID 19	7946	AC1	9188
		MC1	
Storage Subsystem ID 20	7946	AC1	9189
		MC1	
RAID 6 - SAS Primary Array - minimum of 4 HDDs required	7946	AC1	7857
		MC1	
RAID 6 - SAS Secondary Array - minimum of 4 HDDs required	7946	AC1	7858
		MC1	
Preload Specify	7946	AC1	9200
		MC1	
Windows Specify	7946	MC1	9201
Red Hat Specify	7946	AC1	9202
SUSE Specify	7946	AC1	9203
Drop-in-the-Box Specify	7946	AC1	9205
		MC1	
No Preload Specify	7946	AC1	9206
		MC1	

The following are features already announced for the 7946 machine type:

Description	MT	Model	Feature
7946-AC1	7946	AC1	
7946-MC1	7946	MC1	
Addl Dual-Core Intel Xeon E5502 (1.86GHz 4MB L2 800MHz FSB 80w)	7946	AC1	0362
		MC1	
1GB DDR3-1333 1Rx8 LP RDIMM	7946	AC1	3963
		MC1	
2GB DDR3-1333 2Rx8 LP RDIMM	7946	AC1	3964
		MC1	
2GB DDR3-1333 1Rx4 LP RDIMM	7946	AC1	3965

4GB DDR3-1333 2Rx4 LP RDIMM	7946	MC1 AC1	3966
Addl Quad-Core Intel Xeon E5506 (2.13GHz 4MB L2 800MHz FSB 80w)	7946	MC1 AC1	4410
Addl Quad-Core Intel Xeon L5520 (2.26GHz 8MB L2 1066MHz FSB LV 60w)	7946	MC1 AC1	4411
Addl Quad-Core Intel Xeon E5530 (2.4GHz 8MB L2 1066MHz FSB 80w)	7946	MC1 AC1	4412
Addl Quad-Core Intel Xeon X5550 (2.66GHz 8MB L2 1333MHz FSB 95w)	7946	MC1 AC1	4413
Addl Quad-Core Intel Xeon X5560 (2.8GHz 8MB L2 1333MHz FSB 95w)	7946	MC1 AC1	4414
Addl Quad-Core Intel Xeon X5570 (2.93GHz 8MB L2 1333MHz FSB 95w)	7946	MC1 AC1	4415
Addl Quad-Core Intel Xeon E5504 (2.0GHz 4MB L2 800MHz FSB 80w)	7946	MC1 AC1	4449
PCI-Express (1x16) Riser Card slot 1 (support low profile adapter)	7946	MC1 AC1	5076
PCI-X Riser Card slot 2 (support FH/HL adapter)	7946	MC1 AC1	5077
Addl Quad-Core Intel Xeon E5520 (2.26GHz 8MB L2 1066MHz FSB 80w)	7946	MC1 AC1	7750
Addl Quad-Core Intel Xeon L5506 (2.13GHz 4MB L2 800MHz FSB LV 60w)	7946	MC1 AC1	7751
Addl Quad-Core Intel Xeon E5540 (2.53GHz 8MB L2 1066MHz FSB 80w)	7946	MC1 AC1	7752

The Single Entity Offerings (SEO)

Description	SEO number
IBM System x3550 M2	794612U
	79463AU
	794632U
	794642U
	794652U
	794662U
IBM System x3550 M2 Express Models	794692U
	7946E1U
	7946E2U
	7946E3U

Option SEOs

Description	SEO number
Intel Xeon Processor E5502 2C 1.86 GHz 4 MB Cache 800 MHz	46M1077
Intel Xeon Processor E5504 4C 2.00 GHz 4 MB Cache 800 MHz	46M1078
Intel Xeon Processor E5506 4C 2.13 GHz 4 MB Cache 800 MHz	46M1079
Intel Xeon Processor E5520 4C 2.26 GHz 8 MB Cache 1066 MHz	46M1081
Intel Xeon Processor L5520	46M1080

4C 2.26 GHz 8 MB Cache 1066 MHz	
Intel Xeon Processor L5506 4C 2.13 GHz 4 MB Cache 800 MHz	46M1082
Intel Xeon Processor E5530 4C 2.40 GHz 8 MB Cache 1066 MHz	46M1083
Intel Xeon Processor E5540 4C 2.53 GHz 8 MB Cache 1066 MHz	46M1084
Intel Xeon Processor X5550 4C 2.66 GHz 8 MB Cache 1333 MHz	46M1085
Intel Xeon Processor X5560 4C 2.80 GHz 8 MB Cache 1333 MHz	46M1086
Intel Xeon Processor X5570 4C 2.93 GHz 8 MB Cache 1333 MHz	46M1087
1GB (1x1GB) PC3-10600 CL9 ECC DDR3 1333MHz Low Power LP RDIMM	44T1480
2GB (1x2GB) PC3-10600 CL9 ECC DDR3 1333MHz Low Power LP RDIMM	44T1481
2GB (1x2GB) PC3-10600 CL9 ECC DDR3 1333MHz Chipkill LP RDIMM	44T1482
4GB (1x4GB) PC3-10600 CL9 ECC DDR3 1333MHz Chipkill LP RDIMM	44T1483
PCI-Express Riser Card	46M1070
PCI-X Riser Card	46M1071

### Business Partner information

---

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

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=109-116>

---

## Publications

The following publications and CD-ROMs are shipped with the System x3550 M2 server.

- *System x3550 M2 Installation Guide* contains an introduction to the computer, installation and setup, installing options, reference information, and problem determination. The installation guide has easy-to-use text and illustrations to enable you to quickly set up your System x3550 M2 server.
- *Documentation/User's Guide CD* contains translated versions of the product user's guide.
- *ServerGuide* contains online publications and drivers to support the System x3550 M2 server. In addition, it includes a set of easy-to-use utilities to help you install the system using CDs of several popular network operating systems.
- IBM Director systems management software is included.

**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 *System x3550 M2 Installation Guide* and *Problem Determination and Service Guide* (PDSG), in U.S. English versions, are available from

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

Under Product Support, select System x, and under Popular links, select Publications lookup. Select the Product family and click on continue.

---

## Services

---

### **Global Technology Services**

---

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

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

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

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

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

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

For details on education offerings related to specific products, visit

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

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

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

---

#### ***Recommended core technical support***

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

- **Continuous system monitoring**

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

- **Hardware maintenance**

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

- **Software technical support**

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

For more information, visit

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

## Technical information

### Specified operating environment

#### Physical specifications

7946-12x

Processor	Xeon E5502 (80W)	
Quad-core	No	
Internal speed	1.86 GHz	
External speed	4.8 GT/s	
Number standard	1	
Maximum	2	
L2 cache (full speed)	4 MB	
Memory (SDRAM)	2 GB (800 MHz)	
RDIMMs	2 x 1 GB	
DIMM sockets	16	
Address capability	128 GB	
Video	SVGA	
Memory	8 MB	
HDD controller	SAS	
Channels	8	
Connector internal	2	
Connector external	0	
HDD	Open bay 2.5-in	
Total drive bays	6	
3.5-in slim	0	
2.5-in slim	6	
Hot-swap	6	
Internal capacity	1.8 TB(6)	
Bays available	6	
5.25/3.5-in slim	0	
3.5-in slim	0	
2.5-in slim	6	
Hot-swap	6	
Total slots	2(7)	
PCI	2	
x16 PCI-E slot	0-2	
or		
64bit 133 MHz-PCI-X	0-2	
Slots available	2	
Management proc.	Standard	
Ethernet controller	2x10/100/1k Mbps	
Optical (SATA)	Combo	
Diskette drive	0	
Power supply	675 W	
Number standard	1	
Hot-swap	Yes	
Redundant power	Optional	
Auto restart	Yes	
	7946-3Ax	7946-32x
Processor	Xeon E5506 (80W)	Xeon E5520 (80W)
Quad-core	Yes	Yes
Internal speed	2.13 GHz	2.26 GHz
External speed	4.8 GT/s	5.86 GT/s
Number standard	1	1
Maximum	2	2
L2 cache (full speed)	4 MB	8 MB
Memory (SDRAM)	2 GB (1066 MHz)	2 GB (1066 MHz)
RDIMMs	2 x 1 GB	2 x 1 GB
DIMM sockets	16	16
Address capability	128 GB	128 GB
Video	SVGA	SVGA
Memory	8 MB	8 MB
HDD controller	SAS	SAS
Channels	8	8
Connector internal	2	2
Connector external	0	0
HDD	Open bay 2.5-in	Open bay 2.5-in
Total drive bays	6	6
3.5-in slim	0	0
2.5-in slim	6	6

Hot-swap	6	6
Internal capacity	1.8 TB(6)	1.8 TB(6)
Bays available	6	6
5.25/3.5-in slim	0	0
3.5-in slim	0	0
2.5-in slim	6	6
Hot-swap	6	6
Total slots	2(7)	2(7)
PCI	2	2
x16 PCI-E slot	0-2	0-2
or		
64bit 133 MHz-PCI-X	0-2	0-2
Slots available	2	2
Management proc.	Standard	Standard
Ethernet controller	2x10/100/1k Mbps	2x10/100/1k Mbps
Optical (SATA)	Combo	Combo
Diskette drive	0	0
Power supply	675 W	675 W
Number standard	1	1
Hot-swap	Yes	Yes
Redundant power	Optional	Optional
Auto restart	Yes	Yes

7946-42x

Processor	Xeon L5520 (60W)
Quad-core	Yes
Internal speed	2.26 GHz
External speed	5.86 GT/s
Number standard	1
Maximum	2
L2 cache (full speed)	8 MB
Memory (SDRAM)	2 GB (1066 MHz)
RDIMMs	2 x 1 GB
DIMM sockets	16
Address capability	128 GB
Video	SVGA
Memory	8 MB
HDD controller	SAS
Channels	8
Connector internal	2
Connector external	0
HDD	Open bay 2.5-in
Total drive bays	6
3.5-in slim	0
2.5-in slim	6
Hot-swap	6
Internal capacity	1.8 TB(6)
Bays available	6
5.25/3.5-in slim	0
3.5-in slim	0
2.5-in slim	6
Hot-swap	6
Total slots	2(7)
PCI	2
x16 PCI-E slot	0-2
or	
64bit 133 MHz-PCI-X	0-2
Slots available	2
Management proc.	Standard
Ethernet controller	2x10/100/1k Mbps
Optical (SATA)	Combo
Diskette drive	0
Power supply	675 W
Number standard	1
Hot-swap	Yes
Redundant power	Optional
Auto restart	Yes

7946-52x

Processor	Xeon E5530 (80W)
Quad-core	Yes
Internal speed	2.4 GHz
External speed	5.86 GT/s



Number standard	1	
Maximum	2	
L2 cache (full speed)	8 MB	
Memory (SDRAM)	2 GB (1066 MHz)	
RDIMMS	2 x 1 GB	
DIMM sockets	16	
Address capability	128 GB	
Video	SVGA	
Memory	8 MB	
HDD controller	SAS	
Channels	8	
Connector internal	2	
Connector external	0	
HDD	Open bay 2.5-in	
Total drive bays	6	
3.5-in slim	0	
2.5-in slim	6	
Hot-swap	6	
Internal capacity	1.8 TB(6)	
Bays available	6	
5.25/3.5-in slim	0	
3.5-in slim	0	
2.5-in slim	6	
Hot-swap	6	
Total slots	2(7)	
PCI	2	
x16 PCI-E slot	0-2	
or		
64bit 133 MHz-PCI-X	0-2	
Slots available	2	
Management proc.	Standard	
Ethernet controller	2x10/100/1k Mbps	
Optical (SATA)	Combo	
Diskette drive	0	
Power supply	675 W	
Number standard	1	
Hot-swap	Yes	
Redundant power	Optional	
Auto restart	Yes	
7946-62x	7946-92x	
Processor	Xeon L5540 (60W)	Xeon L5570 (95W)
Quad-core	Yes	Yes
Internal speed	2.53 GHz	2.93 GHz
External speed	5.86 GT/s	6.4 GT/s
Number standard	1	1
Maximum	2	2
L2 cache (full speed)	8 MB	8 MB
Memory (SDRAM)	2 GB (1066 MHz)	4 GB (1333 MHz)
RDIMMS	2 x 1 GB	2 x 2 GB
DIMM sockets	16	16
Address capability	128 GB	128 GB
Video	SVGA	SVGA
Memory	8 MB	8 MB
HDD controller	SAS	SAS
Channels	8	8
Connector internal	2	2
Connector external	0	0
HDD	Open bay 2.5-in	Open bay 2.5-in
Total drive bays	6	6
3.5-in slim	0	0
2.5-in slim	6	6
Hot-swap	6	6
Internal capacity	1.8 TB(6)	1.8 TB(6)
Bays available	6	6
5.25/3.5-in slim	0	0
3.5-in slim	0	0
2.5-in slim	6	6
Hot-swap	6	6
Total slots	2(7)	2(7)
PCI	2	2
x16 PCI-E slot	0-2	0-2
or		
64bit 133 MHz-PCI-X	0-2	0-2
Slots available	2	2

Management proc.	Standard	Standard
Ethernet controller	2x10/100/1k Mbps	2x10/100/1k Mbps
Optical (SATA)	Combo	Combo
Diskette drive	0	0
Power supply	675 w	675 w
Number standard	1	1
Hot-swap	Yes	Yes
Redundant power	Optional	Optional
Auto restart	Yes	Yes

7946-E1x                      7946-E2x

Processor	Xeon E5502 (80w)	Xeon L5530 (80w)
Quad-core	No	Yes
Internal speed	1.86 GHZ	2.4 GHZ
External speed	4.8 GT/s	5.86 GT/s
Number standard	1	1
Maximum	2	2
L2 cache (full speed)	4 MB	8 MB
Memory (SDRAM)	4 GB (800 MHz)	4 GB (1066 MHz)
RDIMMs	2 x 2 GB	2 x 2 GB
DIMM sockets	16	16
Address capability	128 GB	128 GB

Video	SVGA	SVGA
Memory	8 MB	8 MB
HDD controller	SAS	SAS
Channels	8	8
Connector internal	2	2
Connector external	0	0
HDD	Open bay 2.5-in	Open bay 2.5-in
Total drive bays	6	6
3.5-in slim	0	0
2.5-in slim	6	6
Hot-swap	6	6
Internal capacity	1.8 TB(6)	1.8 TB(6)
Bays available	6	6
5.25/3.5-in slim	0	0
3.5-in slim	0	0
2.5-in slim	6	6
Hot-swap	6	6
Total slots	2(7)	2(7)
PCI	2	2
x16 PCI-E slot	0-2	0-2

or		
64bit 133 MHz-PCI-X	0-2	0-2
Slots available	2	2
Management proc.	Standard	Standard
Ethernet controller	2x10/100/1k Mbps	2x10/100/1k Mbps
Optical (SATA)	Combo	Combo
Diskette drive	0	0
Power supply	675 w	675 w
Number standard	1	2
Hot-swap	Yes	Yes
Redundant power	Optional	Yes
Auto restart	Yes	Yes

7946-E3x

Processor	Xeon E5560 (95w)
Quad-core	No
Internal speed	2.8 GHZ
External speed	6.4 GT/s
Number standard	1
Maximum	2
L2 cache (full speed)	8 MB
Memory (SDRAM)	4 GB (1333 MHz)
RDIMMs	2 x 2 GB
DIMM sockets	16
Address capability	128 GB
Video	SVGA
Memory	8 MB
HDD controller	SAS
Channels	8
Connector internal	2

Connector external	0
HDD	Open bay 2.5-in
Total drive bays	6
3.5-in slim	0
2.5-in slim	6
Hot-swap	6
Internal capacity	1.8 TB(6)
Bays available	6
5.25/3.5-in slim	0
3.5-in slim	0
2.5-in slim	6
Hot-swap	6
Total slots	2(7)
PCI	2
x16 PCI-E slot	0-2
or	
64bit 133 MHz-PCI-X	0-2
Slots available	2
Management proc.	Standard
Ethernet controller	2x10/100/1k Mbps
Optical (SATA)	Combo
Diskette drive	0
Power supply	675 w
Number standard	2
Hot-swap	Yes
Redundant power	Yes
Auto restart	Yes

<sup>6</sup> Capacities are based on installation of six 2.5-in 300 GB HS SATA HDDs. For the latest information on supported HDD options, visit

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

<sup>7</sup> Two Express Gen2 x16 slots (one full height, half length and one low profile); both slots are convertible to PCI-X via riser card option 64-bit/133 MHz (full height, half length).

### **Video subsystem**

- SVGA compatible video controller (Matrox G200).
- Integrated on Integrated Management Module (IMM).
- Integrated on planar and connected to the PCI bus.
- DDR2-250MHz SDRAM video memory controller.
- Video memory is not expandable.
- Two analog video ports (one front, one rear) that can be connected at the same time.
- One DVI (Digital Video Interface) is not used.
- Avocent Digital Video Compression (with Virtual Media Key option).

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

Microsoft windows 2000 or windows 2003 (32- and 64-bit) and Linux (all distributions)

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

1280 x 1024 x 8	256	60, 72, 75
1280 x 1024 x 16	64K	60, 72, 75
1280 x 1024 x 32	16M	60, 72, 75

**Note:** Some modes are not supported by all monitors.

### ***Dimensions***

- Width: 440 mm (17.3 in)
- Depth: 711 mm (28.0 in)
- Height: 43 mm (1.7 in)
- Weight:
  - Minimum configuration 12.7 kg (28 lb)
  - Maximum configuration 15.6 kg (35.5 lb)

### ***Electrical***

- 100 to 127 (nominal) V ac; 50 Hz or 60 Hz; 7.8 A
- 200 to 240 (nominal) V ac; 50 Hz or 60 Hz; 3.8 A
- Input kilovolt-amperes (kVA) (approximately):
  - Minimum configuration: 0.12 kVA
  - Maximum configuration: 0.78 kVA
- Btu output:
  - Minimum configuration: 307 Btu/hr (90 watts)
  - Maximum configuration: 2662 Btu/hr (780 watts)
- Acoustical noise level emission level: Sound power levels
  - 6.1 bels (idling)
  - 6.1 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.

System x3550 M2 servers are intended for use as rack-drawer servers and are tested and designed to operate in a horizontal position.

### ***Standards***

These systems support or comply with the following standards:

- Multi Processor Specification (MPS) 1.4
- Peripheral Component Interconnect (PCI) specification 2.3
- PCI-X specification V1.0a
- 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 60950-1:2001<sup>8</sup>
- CSA C22.2 No. 69950-1-03 1st Edition
- NOM-019<sup>8</sup>

<sup>8</sup> These servers are certified by the respective UL and NOM agencies.

### ***Operating environment***

Air temperature:

- Server on: 10 C to 35 C (50.0 F to 95.0 F); altitude: 0 to 914.4 m (3000 ft).  
Decrease system temperature by 0.75 C for every 1000-foot increase in altitude.
- Server off: 10 C to 43 C (50.0 F to 109.4 F); maximum altitude: 2133 m (7000 ft)
- Shipment: -40 C to +60 C (-40 F to 140 F); maximum altitude: 2133 m (7000 ft)

Humidity:

- Server on/off: 8% to 80%
- Shipment: 5% to 100%

### **Hardware requirements**

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

- USB keyboard
- USB mouse
- HDD
- Display

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

For service, the server requires a compatible:

- USB keyboard
- USB mouse
- HDD
- Display

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

### **Software requirements**

The following software products have been tested by IBM and software publishers in the latest available versions, and where appropriate, are or will soon be certified by the publisher to be compatible with the System x3550 M2.

Operating systems

- Microsoft
  - Windows Server 2008 (Std, Enterprise) 32-bit
  - Windows Server 2008 (Std, Enterprise) 64-bit
  - Windows Server 2003 (Std, Enterprise) 32-bit
  - Windows Server 2003 (Std, Enterprise) 64-bit
- Linux
  - SLES 10 32-bit, Linux 4 AS for x86<sup>9</sup>
  - SLES 10 64-bit, Linux 4 ES for x86<sup>9</sup>
  - SLES 10 64-bit with Xen Support, 64 and Intel EM64T<sup>9</sup>
  - RHEL 5.3 Server Edition 32-bit<sup>9</sup>

<sup>9</sup> Support and certification is planned for these operating systems.

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

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

### **Compatibility**

The System x3550 M2 server contains licensed system programs that include set configuration, set features, and test programs. System UEFI is loaded from a "flash" EEPROM into system memory. This BIOS provides instructions and interfaces designed to support the standard features of the System x3550 M2 server and to maintain compatibility with many current software programs.

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

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

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

### **Limitations**

- The System x3550 M2 server contains a single, configurable serial port. It can be configured to be operating-system-controlled, service-processor-controlled, or shared between the two. You can set the configuration by altering the BIOS. The default configuration from the factory is in the shared position. In the shared position, the service processor controls the port until the operating system is running, then the operating system takes control. The service processor can regain control of the port for user-configured dial-out situations or if the operating system is not available, but operating system control cannot be reestablished without resetting the server.
- System x3550 M2 servers can address a maximum of 128 GB of system memory. All supported system memory is addressable through direct memory access. The System x3550 M2 server supports 1 GB, 2 GB, 4 GB, and 8 GB DDR3 SDRAM Registered DIMM memory. All supported DIMMs can coexist in the same system. Refer to the [Planning information](#) section for supported memory options.
- To ensure proper air flow for cooling, the System x3550 M2 server requires a rack with a perforated door, such as the NetBAY42 SR or NetBAY25 SR. An alternative is to remove the front door of rack cabinets where the door panel is of solid construction.
- Microprocessor upgrades must be of the same QuickPath Interconnect (QPI) link speed, Integrated Memory Controller frequency, Core frequency, power segment, internal cache size and type. Mixing processors of different stepping levels but same model (as per CPUID instruction) is supported. Mixing microprocessors of different QPI, core speed, cache size, core quantity and power segment is not supported.
- Use the version of ServerGuide that is shipped with the system, or a later version, to load software and drivers. Earlier versions of ServerGuide may not be compatible with the server.

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

### **Planning information**

---

#### **Customer responsibilities**

#### **System x3550 M2 and related options**

The System x3550 M2 server and related options are designated as customer setup. Customer setup instructions are shipped with system and options.

#### **Configuration information**

## **Bay configuration**

The System x3550 M2 server supports up to six 2.5-inch SAS/SATA HDDs. All models come with a CD-RW/DVD Combo drive. All models are open bay models.

System x3550 M2 hot-swap models contain a DASD backplane supporting up to six hot-swap, SAS compliant drive bays. The backplane is connected to the internal connector of the integrated SAS controller through a SAS cable.

## **Cabling - Standard RAID configurations**

### **Additional cabling alternatives**

### **Rack installations**

System x3550 M2 1U rack-drawer models are designed to be installed in a 19-inch rack cabinet designed for 711.1-mm (28-in) deep devices, such as the NetBAY42U ER and NetBAY42U SR. Installation into some of the older Netfinity® racks (9306900, 9306910, 9306200) will require a rack extension kit for proper cable bend radius and cooling.

If a System x3550 M2 server is mounted in a non-IBM rack, the rack must satisfy the following specifications:

- The rack must meet EIA-310-D standards for mounting flanges and hole locations.
- The front to rear distance of the mounting flanges must be between 635 mm and 788 mm (25 and 31 in) if not using a cable management arm.
- The front to rear distance of the mounting flanges must be between 716 mm and 744 mm (28 and 29 in) if using a cable management arm.
- The thickness of the mounting flanges must be between 1.9 mm and 3.3 mm (0.08 and 0.13 in).
- The mounting flanges must have either 7.1-mm (0.28-in) diameter holes or 9.6-mm (0.38-in) square holes on the standard EIA hole spacing.
- The rack must have a minimum depth of 50 mm (1.97 in) between the front mounting flange and inside of the front door for appropriate cooling.
- The rack must have a minimum depth of 166 mm (6.53 in) between the rear mounting flange and inside of the rear door to install the server and provide cable management space.
- The minimum side-to-side clearance in the rack between the front and rear mounting flanges must be 467 mm (18.2 in) to accommodate the width of the server and the slide mounting brackets.
- The minimum side-to-side clearance in the rack between each door and the mounting flanges must be 484 mm (19.1 in) to accommodate the slide mounting brackets.
- The rack must 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 must be able to support the maximum rack configuration, including all servers, external cables, power distribution units, and so on.
- The rack must provide proper stabilization so that the rack does not become unstable when servers are pulled out for service.

## **Processor options**

The System x3550 M2 server is an Intel Xeon processor system that supports internal processing speeds of up to 2.93 GHz and processing operations to memory up to 1333 MHz. It contains an integrated, full-speed 8 MB advanced transfer L2 cache. This dual-socket system supports a second processor with the same QuickPath Interconnect (QPI) link speed, Integrated Memory Controller frequency, Core frequency, power segment, internal cache size, and type of processor as the first.

### **Supported processor options**

The following processor options are supported:

- Intel Xeon Processor E5502 (46M1077)
- Intel Xeon Processor E5504 (46M1078)
- Intel Xeon Processor E5506 (46M1079)
- Intel Xeon Processor E5520 (46M1081)
- Intel Xeon Processor L5520 (46M1080)
- Intel Xeon Processor L5506 (46M1082)
- Intel Xeon Processor E5530 (46M1083)
- Intel Xeon Processor E5540 (46M1084)
- Intel Xeon Processor X5550 (46M1085)
- Intel Xeon Processor X5560 (46M1086)
- Intel Xeon Processor X5570 (46M1087)

### **Supported memory options**

The following memory options are supported:

- 1GB (1x1GB) PC3-10600 CL9 ECC DDR31333MHz Low Power LP RDIMM (44T1480)
- 2GB (1x2GB) PC3-10600 CL9 ECC DDR31333MHz Low Power LP RDIMM (44T1481)
- 2GB (1x2GB) PC3-10600 CL9 ECC DDR31333MHz Chipkill LP RDIMM (44T1482)
- 4GB (1x4GB) PC3-10600 CL9 ECC DDR31333MHz Chipkill LP RDIMM (44T1483)

### **Supported communications options**

The following communications options are supported:

- Dual-port 1 GB Ethernet daughter card (46M1076)

### **Power considerations**

The System x3550 M2 server includes a standard 675-watt power supply. This power supply is capable of providing sufficient power to run the server fully configured with supported devices.

### **Supported power options**

The following power options are supported:

- 675 W redundant power supply (46M1075)

### **Cable orders**

The dual 10/100/1000 Mbps, full-duplex, Ethernet PCI controllers, standard with the System x3550 M2 server, are connected directly to independent RJ-45 connectors. The RJ-45 connectors provides a 10/100/1000 Base-T interface (either at half- or full-duplex) 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 Mbps, or higher, Category 5e, 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 x3550 M2 server requires about 20 minutes for installation. Installation includes unpacking, setting up, and powering on the system. Additional time is required to install an operating system, additional adapters, or features.



## **Packaging**

One box

- System unit carton: System unit
- Country kit carton
  - System x3550 Installation Guide
  - Rack Installation Guide
  - ServerRAID Support Package

The System x3550 M2 server is shipped in a single package. The country kit carton is contained inside the top portion of the system unit carton.

## **Processor upgrade options**

- Intel Xeon processor
- Safety instructions and warranty

## **Supplies**

None

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

---

Security and auditability features include:

- Power-on and privileged-access password functions provide control of who has access to the data and server setup program on the server.
- A set unattended boot mode allows the system keyboard to be locked to all entries except the password and at the same time allows other computers on the network to access the system disk drive.
- A selectable boot sequence can be used to prevent unauthorized installation of software or removal of data from the diskette drive.
- Integrated Winbond Trusted Platform Module (TPM) version 1.2 (WPCT201BA0WG) security chip performs cryptographic functions and stores private and public security keys. It provides the hardware support for the Trusted Computing Group (TCG) specification. Users can download the software to support the TCG specification when the software is available. The TPM firmware can be upgraded in the field. The TPM firmware can be upgraded in the field.

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

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

---

## **Terms and conditions**

---

### **IBM Global Financing**

Yes

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

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

Warranty Information  
P.O. Box 12195

### **Warranty period**

---

- Machine Type 7946 - Three years
- Optional features - One year

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

The following have been designated as consumables or supply items and are, therefore, not covered by this warranty:

- Battery (System)
- Battery (RAID)

### **Warranty service**

---

If required, IBM provides repair or exchange service, depending on the type of warranty service specified below for the machine. IBM will attempt to resolve your problem over the telephone or electronically by access to an IBM Web site. 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:

- Top cover (All models)
- DIMM air duct
- Memory
- Virtual media key
- A/C Power supply

- Optical drives
- Rack latch kit
- Hard disk drives
- Fillers
- Fan, hot-swap
- ServeRAID-BR10i adapter
- SAS/SATA riser card
- Air baffle kit
- Cable management arm
- System label
- Top cover
- Voltage regulator module
- Cable, hard disk drive configuration
- Cable, operator panel
- Cable, SATA DVD
- EMC fillers
- Ethernet card
- Labels
- Low-profile adapter (varies)
- Riser-card bracket
- Bracket assembly, rear I/O
- SAS adapter retainer
- Video adapters
- Hypervisor<sup>™</sup>, embedded USB flash device

### ***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***

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

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

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

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

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

### **Licensing**

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

### **Maintenance services**

---

#### ***ServicePac , ServiceSuite , ServiceElect, and ServiceElite***

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

#### ***Warranty service upgrade***

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

IBM will attempt to resolve your problem over the telephone or electronically by access to an IBM Web site. 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.

See the [Pricing](#) section for specific offerings.

#### ***Maintenance service***

If required, IBM provides repair or exchange service, depending on the type of maintenance service specified below for the machine. IBM will attempt to resolve your problem over the telephone or electronically by access to an IBM Web site. 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.

See the [Pricing](#) section for specific offerings.

### **Maintenance service (ICA)**

---

Maintenance services are available for ICA legacy contracts.

#### ***Alternative service (warranty service upgrades)***

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

IBM will attempt to resolve your problem over the telephone or electronically by access to an IBM Web site. 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.

See the [Pricing](#) section for specific offerings.

#### ***Maintenance service***

If required, IBM provides repair or exchange service, depending on the type of maintenance service specified below for the machine. IBM will attempt to resolve your problem over the telephone or electronically by access to an IBM Web site. 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.

See the [Pricing](#) section for specific offerings.

### **Non-IBM parts support**

---

#### ***Warranty service***

IBM is now shipping machines with selected non-IBM parts that contain an IBM field replaceable unit (FRU) part number label. These parts are to be serviced during the IBM machine warranty period. IBM is covering the service on these selected non-IBM parts as an accommodation to 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-304.ibm.com/servers/support/machine\\_warranties/machine\\_code.html](http://www-304.ibm.com/servers/support/machine_warranties/machine_code.html)

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

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

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

**Educational allowance**

None

---

**Pricing**

---

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

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

The following are newly announced features on the specified models of the IBM xSeries 7946 machine type:

Initial/				
Description	Model Number	Feature Numbers		MES/ Both support
IBM System x3550 M2	AC1			
IBM System x3550 M2	MC1			
Optical Blank Bezel	AC1	0906		Initial
	MC1			Initial
NetXtreme II 1000 Express G Ethernet Adapter- PCIe	AC1	1485		Initial
	MC1			Initial
PRO/1000 GT Dual Port Server Adapter by Intel-PCI-X	AC1	1579		Initial
	MC1			Initial
PRO/1000 GT Quad Port Server Adapter by Intel-PCI-X	AC1	1580		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
NVIDIA Quadro FX 1700 3D Graphics Card	AC1	1822	Initial
	MC1		Initial
NVIDIA Quadro FX 570	AC1	1823	Initial
	MC1		Initial
Redundant 675W Power supply	AC1	1999	Initial
	MC1		Initial
2U Bracket for NetXtreme II 1000 Express Ethernet Adapter	AC1	2048	Initial
	MC1		Initial
System Documentation and Software-US English	AC1	2161	Initial
	MC1		Initial
	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 of 1U Component			
	AC1	2305	Initial
	MC1		Initial
Department of Defense UID Label			
	AC1	2320	Initial
	MC1		Initial
TCPIP Off Load Engine (TOE)			
	AC1	2500	Initial
	MC1		Initial
System Packaging-WW			
	AC1	2577	Initial
	MC1		Initial
2U Bracket for QLogic iSCSI Single-Port PCIe HBA for IBM System x			
	AC1	2754	Initial
	MC1		Initial
2U Bracket for IBM 10 GbE PCIe SR Server Adapter			
	AC1	2755	Initial
	MC1		Initial
2U Bracket for IBM SAS HBA Controller			
	AC1	2769	Initial
	MC1		Initial
PRO/1000 PT Dual Port Server Adapter by Intel			
	AC1	2944	Initial
	MC1		Initial
PRO/1000 PT Quad Port Server Adapter			
	AC1	2974	Initial
	MC1		Initial
PRO/1000 PF Server Adapter			
	AC1	2975	Initial
	MC1		Initial
QLogic iSCSI Single Port PCIe HBA for IBM System x			
	AC1	2976	Initial
	MC1		Initial
QLogic iSCSI Dual Port PCIe HBA for IBM System x			
	AC1	2977	Initial
	MC1		Initial
IBM 10 GbE PCIe SR Server Adapter			
	AC1	2978	Initial
	MC1		Initial
NetXtreme II 1000 Express Dual Port Ethernet Adapter			
	AC1	2995	Initial
	MC1		Initial
Install in Rack 01			
	AC1	3101	Initial
	MC1		Initial
Install in Rack 02			
	AC1	3102	Initial
	MC1		Initial
Install in Rack 03			
	AC1	3103	Initial
	MC1		Initial
Install in Rack 04			

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

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

	MC1		Initial
Install in Rack 54	AC1 MC1	3154	Initial Initial
Install in Rack 55	AC1 MC1	3155	Initial Initial
Install in Rack 56	AC1 MC1	3156	Initial Initial
Install in Rack 57	AC1 MC1	3157	Initial Initial
Install in Rack 58	AC1 MC1	3158	Initial Initial
Install in Rack 59	AC1 MC1	3159	Initial Initial
Install in Rack 60	AC1 MC1	3160	Initial Initial
Install in Rack 61	AC1 MC1	3161	Initial Initial
Install in Rack 62	AC1 MC1	3162	Initial Initial
Install in Rack 63	AC1 MC1	3163	Initial Initial
Install in Rack 64	AC1 MC1	3164	Initial Initial
Rack location U01	AC1 MC1	3201	Initial Initial
Rack location U02	AC1 MC1	3202	Initial Initial
Rack location U03	AC1 MC1	3203	Initial Initial
Rack location U04	AC1 MC1	3204	Initial Initial
Rack location U05	AC1 MC1	3205	Initial Initial
Rack location U06	AC1 MC1	3206	Initial Initial
Rack location U07	AC1 MC1	3207	Initial Initial
Rack location U08	AC1 MC1	3208	Initial Initial
Rack location U09	AC1 MC1	3209	Initial Initial
Rack location U10	AC1 MC1	3210	Initial Initial
Rack location U11	AC1 MC1	3211	Initial Initial
Rack location U12	AC1 MC1	3212	Initial Initial
Rack location U13	AC1 MC1	3213	Initial Initial
Rack location U14	AC1 MC1	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
DS4000 FC 4Gb PCI-X Single Port HBA	AC1	3550	Initial
	MC1		Initial
DS4000 FC 4Gb PCI-X Dual Port HBA	AC1	3551	Initial
	MC1		Initial
ServerRAID-MR10M SAS/SATA Controller	AC1	3559	Initial
	MC1		Initial
2U Bracket for Emulex 4Gb Single-Port PCI-X or PCI-E HBA for Sys x	AC1	3563	Initial
	MC1		Initial
2U Bracket for Emulex 4Gb Dual-Port PCI-X or PCI-E HBA for Sys x	AC1	3564	Initial
	MC1		Initial
2U Bracket for QLogic 4-Gbps FC Single-Port PCI-E HBA	AC1	3565	Initial
	MC1		Initial
2U Bracket for QLogic 4-Gbps FC Dual-Port PCI-E HBA	AC1	3566	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
ServerRAID-MR10i SAS/SATA Controller	AC1	3571	Initial
	MC1		Initial
ServerRAID-BR10i SAS/SATA Controller	AC1	3577	Initial
	MC1		Initial
QLogic 8Gb FC Single-port HBA for IBM System x	AC1	3578	Initial
	MC1		Initial
QLogic 8Gb FC Dual-port HBA for IBM System x	AC1	3579	Initial
	MC1		Initial
Emulex 8Gb FC Single-port HBA for IBM System x	AC1	3580	Initial
	MC1		Initial
Emulex 8Gb FC Dual-port HBA for IBM System x	AC1	3581	Initial
	MC1		Initial
IBM 3Gb SAS HBA Controller v2	AC1	3583	Initial
	MC1		Initial
ServerRAID-MR10is VAULT SAS/SATA Controller	AC1	3584	Initial
	MC1		Initial
Dual port 1Gb Ethernet Daughter Card	AC1	3585	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
Dual-Core Intel Xeon E5502 (1.86GHz 4MB L2 Cache 800MHz FSB 80w)	AC1	3637	Initial
	MC1		Initial
Quad-Core Intel Xeon E5506 (2.13GHz 4MB L2 Cache 800MHz FSB 80w)	AC1	3638	Initial
	MC1		Initial
Quad-Core Intel Xeon L5520 (2.26GHz 8MB L2 Cache 1066MHz FSB LV 60w)	AC1	3639	Initial
	MC1		Initial
Quad-Core Intel Xeon E5530 (2.4GHz 8MB L2 Cache 1066MHz FSB 80w)	AC1	3640	Initial
	MC1		Initial
Quad-Core Intel Xeon X5550 (2.66GHz 8MB L2 Cache 1333MHz FSB 95w)	AC1	3641	Initial
	MC1		Initial
Quad-Core Intel Xeon X5560 (2.8GHz 8MB L2 Cache 1333MHz FSB 95w)	AC1	3642	Initial
	MC1		Initial
Quad-Core Intel Xeon X5570 (2.93GHz 8MB L2 Cache 1333MHz FSB 95w)	AC1	3643	Initial
	MC1		Initial
1m LC-LC Fiber Cable (networking)	AC1	3700	Initial
	MC1		Initial
5m LC-LC Fiber Cable (networking)	AC1	3701	Initial
	MC1		Initial
25m LC-LC Fiber Cable (networking)	AC1	3702	Initial
	MC1		Initial
1m LC-LC Fiber Cable	AC1	3703	Initial
	MC1		Initial
5m LC-LC Fiber Cable	AC1	3704	Initial
	MC1		Initial
25m LC-LC Fiber Cable	AC1	3705	Initial
	MC1		Initial
IBM 50GB SATA 2.5" SFF Slim-HS High IOPS SSD	AC1	3745	Initial
	MC1		Initial
IBM 31.4GB 2.5" Solid State Drive	AC1	3747	Initial
	MC1		Initial
3m Console Switch Cable (USB)	AC1	3751	Initial
	MC1		Initial
1.5M USB Conversion Cable Set	AC1	3757	Initial
	MC1		Initial
1.8m Black Cat5e Cable	AC1	3760	Initial
	MC1		Initial
3m Black Cat5e Cable	AC1	3761	Initial
	MC1		Initial
10m Black Cat5e Cable	AC1	3762	Initial
	MC1		Initial
Cyclades RJ45 -to- DB9 serial cable adapter	AC1	3769	Initial
	MC1		Initial
0.6m Yellow Cat5e Cable	AC1	3791	Initial
	MC1		Initial
1.5m Yellow Cat5e Cable	AC1	3792	Initial
	MC1		Initial
3m Yellow Cat5e Cable			

	AC1 MC1	3793	Initial Initial
10m Yellow Cat5e Cable			
	AC1 MC1	3794	Initial Initial
25m Yellow Cat5e Cable			
	AC1 MC1	3795	Initial Initial
0.6m Green Cat5e Cable			
	AC1 MC1	3796	Initial Initial
1.5m Green Cat5e Cable			
	AC1 MC1	3797	Initial Initial
3m Green Cat5e Cable			
	AC1 MC1	3798	Initial Initial
10m Green Cat5e Cable			
	AC1 MC1	3799	Initial Initial
25m Green Cat5e Cable			
	AC1 MC1	3800	Initial Initial
0.6m Blue Cat5e Cable			
	AC1 MC1	3801	Initial Initial
1.5m Blue Cat5e Cable			
	AC1 MC1	3802	Initial Initial
3m Blue Cat5e Cable			
	AC1 MC1	3803	Initial Initial
10m Blue Cat5e Cable			
	AC1 MC1	3804	Initial Initial
25m Blue Cat5e Cable			
	AC1 MC1	3805	Initial Initial
2U Bracket for NetXtreme II 10 GigE Express Fiber SR Adapter			
	AC1 MC1	4029	Initial Initial
2x3 2.5" HDD backplane for 1U			
	AC1 MC1	4038	Initial Initial
Slide Kit			
	AC1 MC1	4039	Initial Initial
GBM, CMA			
	AC1 MC1	4040	Initial Initial
System code Group BOM			
	AC1 MC1	4041	Initial Initial
Power Supply Blank Filler			
	AC1 MC1	4042	Initial Initial
2U bracket for Emulex 8Gb FC Single-port HBA for System x			
	AC1 MC1	4047	Initial Initial
2U bracket for Emulex 8Gb FC Dual-port HBA for System x			
	AC1 MC1	4048	Initial Initial
2U bracket for QLogic 8Gb FC Single-port HBA for System x			
	AC1 MC1	4049	Initial Initial
2U Bracket for NetXtreme II 1000 Express Dual Port Ethernet Adapter			
	AC1 MC1	4055	Initial Initial
2.5" HDD Filler Bezel			



	AC1	4069	Initial
	MC1		Initial
UltraSlim Enhanced SATA DVD-ROM			
	AC1	4161	Initial
	MC1		Initial
UltraSlim Enhanced SATA CD-RW / DVD-ROM Combo			
	AC1	4162	Initial
	MC1		Initial
UltraSlim Enhanced SATA Multi-Burner			
	AC1	4163	Initial
	MC1		Initial
IBM 1m LC-LC Fibre Channel Cable			
	AC1	4282	Initial
	MC1		Initial
IBM 5m LC-LC Fibre Channel Cable			
	AC1	4283	Initial
	MC1		Initial
IBM 25m LC-LC Fibre Channel Cable			
	AC1	4284	Initial
	MC1		Initial
InfiniBand 8 meter 4x Cable for IBM eServer BladeCenter			
	AC1	4294	Initial
InfiniBand 4x Cable 3 meter for IBM eServer BladeCenter			
	AC1	4296	Initial
Simple Swap Kit			
	AC1	4319	Initial
	MC1		Initial
PCI-X Riser Card slot 1 (support low profile adapter)			
	AC1	4373	Initial
	MC1		Initial
PCI-Express (1x16) Riser Card Slot 2 (support FH/HL adapter)			
	AC1	4375	Initial
	MC1		Initial
Customer Provided and Installed - Red Hat Enterprise Linux 4 ES for AMD64/EM64T			
	AC1	4714	Initial
Customer Provided and Installed - Red Hat Enterprise Linux 4 WS for x86			
	AC1	4732	Initial
Customer Provided and Installed - Microsoft windows Server 2003 R2 Standard Edition			
	AC1	4733	Initial
Customer Provided and Installed - Microsoft windows Server 2003, Enterprise Edition			
	AC1	4734	Initial
Customer Provided and Installed - Microsoft windows Server 2003, Standard Edition			
	AC1	4735	Initial
Customer Provided and Installed - Microsoft windows Server 2003, Web Edition			
	AC1	4736	Initial
Customer Provided and Installed - Microsoft windows Server 2003, Enterprise x64 Edition			
	AC1	4737	Initial
Customer Provided and Installed - Microsoft windows Server 2003 R2 Enterprise x64 Edition			
	AC1	4738	Initial
Customer Provided and Installed - Microsoft windows Server 2003 R2 Standard x64 Edition			
	AC1	4739	Initial
Customer Provided and Installed - Microsoft windows Server 2003 R2 Enterprise Edition			
	AC1	4740	Initial
Customer Provided and Installed - Red Hat Enterprise Linux 3 WS for x86			
	AC1	4741	Initial
Customer Provided and Installed - Red Hat Enterprise Linux 4 WS for AMD64/EM64T			
	AC1	4742	Initial
Customer Provided and Installed - Red Hat			

Enterprise Linux 4 AS for AMD64/EM64T			
	AC1	4743	Initial
Customer Provided and Installed - SUSE LINUX Enterprise Server 9 for x86			
	AC1	4744	Initial
Customer Provided and Installed - Red Hat Enterprise Linux 4 ES for x86			
	AC1	4745	Initial
Customer Provided and Installed - Red Hat Enterprise Linux 4 AS for x86			
	AC1	4746	Initial
Customer Provided and Installed - SUSE LINUX Enterprise Server 9 for AMD64/EM64T			
	AC1	4747	Initial
Customer Provided and Installed - Microsoft windows Server 2003, Standard x64 Edition			
	AC1	4748	Initial
Customer Provided and Installed - Netware 6.5			
	AC1	4749	Initial
DO NOT USE - Microsoft windows Server 2003 R2, web Edition			
	AC1	4751	Initial
Customer Provided and Installed - Microsoft windows Small Business Server 2003			
	AC1	4758	Initial
Customer Provided and Installed - Red Hat Enterprise Linux 3 AS for x86			
	AC1	4759	Initial
Customer Provided and Installed - VMware ESX Server 2.5			
	AC1	4760	Initial
Customer Provided and Installed - Red Hat Enterprise Linux 3 ES for AMD64/EM64T			
	AC1	4761	Initial
Customer Provided and Installed - Red Hat Enterprise Linux 3 AS for AMD64/EM64T			
	AC1	4762	Initial
Customer Provided and Installed - Red Hat Enterprise Linux 3 ES for x86			
	AC1	4763	Initial
Customer Provided and Installed - VMware ESX Server 3.0			
	AC1	4764	Initial
Customer Provided and Installed - Red Hat Enterprise Linux 3 WS for AMD64/EM64T			
	AC1	4765	Initial
InfiniBand 10 meter 4x Cable for IBM BladeCenter			
	AC1	4866	Initial
IBM Virtual Media Key			
	AC1	5080	Initial
	MC1		Initial
50 GB Simple Swap SATA SSD			
	AC1	5197	Initial
	MC1		Initial
NetXtreme II 10 Gige Express Fiber SR Adapter			
	AC1	5451	Initial
	MC1		Initial
IBM 73GB 15K 6Gbps SAS 2.5" SFF Slim-HS HDD			
	AC1	5522	Initial
	MC1		Initial
IBM 146GB 15K 6Gbps SAS 2.5" SFF Slim-HS HDD			
	AC1	5536	Initial
	MC1		Initial
IBM 146GB 10K 6Gbps SAS 2.5" SFF Slim-HS HDD			
	AC1	5537	Initial
	MC1		Initial
IBM 73 GB 10K SAS 2.5" SFF Slim-HS HDD			
	AC1	5577	Initial
	MC1		Initial
IBM 146 GB 10K SAS 2.5" SFF Slim-HS HDD			
	AC1	5578	Initial
	MC1		Initial
IBM 73 GB 15K SAS 2.5" SFF Slim-HS HDD			
	AC1	5579	Initial

	MC1		Initial
300GB 10K SATA 2.5" Slim-HS HDD	AC1	5595	Initial
	MC1		Initial
IBM 300GB 10K 6Gbps SAS 2.5" SFF Slim-HS HDD	AC1	5599	Initial
	MC1		Initial
Base	AC1	5600	Initial
	MC1		Initial
System Common planar for 1U/2U	AC1	5653	Initial
	MC1		Initial
Remote Battery Cable	AC1	5862	Initial
	MC1		Initial
Server RAID-MR10i Li-Ion Battery	AC1	5864	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/100-250V, C13 to IEC 320-C14 Rack Power Cable	AC1	6311	Initial
	MC1		Initial
2.8m, 10A/120V, C13 to NEMA 5-15P (US) Line Cord	AC1	6313	Initial
	MC1		Initial
Rack power cable - 2.0m, 125-250V, C13 to IEC 320-C14 (WW)	AC1	6316	Initial
	MC1		Initial
Line cord - 1.8m, 10A/250V, C13 to NEMA 6-15P (US)	AC1	6351	Initial
	MC1		Initial
Line cord - 1.8M, 10A/125V, C13 to NEMA 5-15P (US)	AC1	6369	Initial
	MC1		Initial
Line cord - 2.8m, 10A/250V, C13 to NEMA 6-15P (US)	AC1	6372	Initial
	MC1		Initial
Quad-Core Intel Xeon E5504 (2.0GHZ 4MB L2 Cache 800MHZ FSB 80w)	AC1	6990	Initial
	MC1		Initial
Quad-Core Intel Xeon E5520 (2.26GHZ 8MB L2 Cache 1066MHZ FSB 80w)	AC1	6991	Initial
	MC1		Initial
Quad-Core Intel Xeon L5506 (2.13GHZ 4MB L2 Cache 800MHZ FSB LV 60w)	AC1	6992	Initial
	MC1		Initial
Quad-Core Intel Xeon E5540 (2.53GHZ 8MB L2 Cache 1066MHZ FSB 80w)	AC1	6993	Initial
	MC1		Initial
RAID 10 - Primary Array (SAS) - minimum of 4 HDDs required	AC1	7074	Initial
	MC1		Initial

RAID 10 - Secondary Array (SAS) - minimum of 4 HDDs required	AC1 MC1	7075	Initial Initial
2U bracket for QLogic 8Gb FC Dual-port HBA for System x	AC1 MC1	7550	Initial Initial
2U Bracket for Brocade 8Gb FC Single-port HBA for IBM System x	AC1 MC1	7594	Initial Initial
2U Bracket for Brocade 8Gb FC Dual-port HBA for IBM System x	AC1 MC1	7595	Initial Initial
Grouped Product	AC1 MC1	7830	Initial Initial
Customer Solution Center Services	AC1 MC1	7831	Initial Initial
No HDD Selected	AC1 MC1	8026	Initial Initial
Consolidate Shipment	AC1 MC1	8031	Initial Initial
e1350 Solution Component	AC1	8034	Initial
Compute Node	AC1 MC1	8036	Initial Initial
Management Node	AC1 MC1	8037	Initial Initial
Storage Node	AC1 MC1	8038	Initial Initial
TAA Compliant Order	AC1 MC1	8067	Initial Initial
General Racking Solution	AC1 MC1	8072	Initial Initial
No SATA HDD Selected	AC1 MC1	8080	Initial Initial
No 2.5" SAS HDD Selected	AC1 MC1	8081	Initial Initial
No Publications Selected	AC1 MC1	8086	Initial Initial
RAID 1E - Primary Array (SAS) - minimum of 3 HDDs required	AC1 MC1	8143	Initial Initial
RAID 1E - Secondary Array (SAS) - minimum of 3 HDDs required	AC1 MC1	8146	Initial Initial
IBM 2 Button Optical wheel Mouse - Black - USB	AC1 MC1	8912	Initial Initial
IBM 3 Button Optical Mouse - Black - USB	AC1 MC1	8913	Initial Initial
Integrate in manufacturing	AC1 MC1	8971	Initial Initial
Ship uninstalled (Safety)	AC1 MC1	8972	Initial Initial

No Internal RAID	AC1	9012	Initial
	MC1		Initial
Hot Spare	AC1	9013	Initial
	MC1		Initial
Enable Memory Mirroring	AC1	9017	Initial
	MC1		Initial
Internal SAS RAID - Setup by IBM	AC1	9066	Initial
	MC1		Initial
Internal SAS RAID - Setup by Customer	AC1	9067	Initial
	MC1		Initial
RAID 0 - SAS Primary Array - minimum of 2 HDD required	AC1	8141	Initial
	MC1		Initial
RAID 1 - SAS Primary Array - 2 HDDs required	AC1	8142	Initial
	MC1		Initial
RAID 5 - SAS Primary Array - minimum of 3 HDDs required	AC1	7853	Initial
	MC1		Initial
RAID 0 - SAS Secondary Array - minimum of 2 HDD required	AC1	8144	Initial
	MC1		Initial
RAID 1 - SAS Secondary Array - 2 HDDs required	AC1	8145	Initial
	MC1		Initial
RAID 5 - SAS Secondary Array - minimum of 3 HDDs required	AC1	7854	Initial
	MC1		Initial
Storage Subsystem ID 01	AC1	9170	Initial
	MC1		Initial
Storage Subsystem ID 02	AC1	9171	Initial
	MC1		Initial
Storage Subsystem ID 03	AC1	9172	Initial
	MC1		Initial
Storage Subsystem ID 04	AC1	9173	Initial
	MC1		Initial
Storage Subsystem ID 05	AC1	9174	Initial
	MC1		Initial
Storage Subsystem ID 06	AC1	9175	Initial
	MC1		Initial
Storage Subsystem ID 07	AC1	9176	Initial
	MC1		Initial
Storage Subsystem ID 08	AC1	9177	Initial
	MC1		Initial
Storage Subsystem ID 09	AC1	9178	Initial
	MC1		Initial
Storage Subsystem ID 10	AC1	9179	Initial
	MC1		Initial
Storage Subsystem ID 11	AC1	9180	Initial
	MC1		Initial
Storage Subsystem ID 12	AC1	9181	Initial
	MC1		Initial
Storage Subsystem ID 13	AC1	9182	Initial

	MC1		Initial
Storage Subsystem ID 14	AC1	9183	Initial
	MC1		Initial
Storage Subsystem ID 15	AC1	9184	Initial
	MC1		Initial
Storage Subsystem ID 16	AC1	9185	Initial
	MC1		Initial
Storage Subsystem ID 17	AC1	9186	Initial
	MC1		Initial
Storage Subsystem ID 18	AC1	9187	Initial
	MC1		Initial
Storage Subsystem ID 19	AC1	9188	Initial
	MC1		Initial
Storage Subsystem ID 20	AC1	9189	Initial
	MC1		Initial
RAID 6 - SAS Primary Array - minimum of 4 HDDs required	AC1	7857	Initial
	MC1		Initial
RAID 6 - SAS Secondary Array - minimum of 4 HDDs required	AC1	7858	Initial
	MC1		Initial
Preload Specify	AC1	9200	Initial
	MC1		Initial
Windows Specify	MC1	9201	Initial
Red Hat Specify	AC1	9202	Initial
SUSE Specify	AC1	9203	Initial
Drop-in-the-Box Specify	AC1	9205	Initial
	MC1		Initial
No Preload Specify	AC1	9206	Initial
	MC1		Initial

The following are features already announced for the 7946 machine type:

Description	Model number	Feature number	Initial/ MES/ Both support
AC1	AC1		
MC1	MC1		
Addl Dual-Core Intel Xeon E5502 (1.86GHz 4MB L2 800MHz FSB 80w)	AC1	0362	Initial
	MC1		Initial
1GB DDR3-1333 1Rx8 LP RDIMM	AC1	3963	Initial
	MC1		Initial
2GB DDR3-1333 2Rx8 LP RDIMM	AC1	3964	Initial
	MC1		Initial
2GB DDR3-1333 1Rx4 LP RDIMM	AC1	3965	Initial
	MC1		Initial
4GB DDR3-1333 2Rx4 LP RDIMM	AC1	3966	Initial
	MC1		Initial
Addl Quad-Core Intel Xeon E5506 (2.13GHz 4MB L2			

800MHz FSB 80w)	AC1	4410	Initial
	MC1		Initial
Addl Quad-Core Intel Xeon L5520 (2.26GHz 8MB L2 1066MHz FSB LV 60w)	AC1	4411	Initial
	MC1		Initial
Addl Quad-Core Intel Xeon E5530 (2.4GHz 8MB L2 1066MHz FSB 80w)	AC1	4412	Initial
	MC1		Initial
Addl Quad-Core Intel Xeon X5550 (2.66GHz 8MB L2 1333MHz FSB 95w)	AC1	4413	Initial
	MC1		Initial
Addl Quad-Core Intel Xeon X5560 (2.8GHz 8MB L2 1333MHz FSB 95w)	AC1	4414	Initial
	MC1		Initial
Addl Quad-Core Intel Xeon X5570 (2.93GHz 8MB L2 1333MHz FSB 95w)	AC1	4415	Initial
	MC1		Initial
Addl Quad-Core Intel Xeon E5504 (2.0GHz 4MB L2 800MHz FSB 80w)	AC1	4449	Initial
	MC1		Initial
PCI-Express (1x16) Riser Card Slot 1 (support low profile adapter)	AC1	5076	Initial
	MC1		Initial
PCI-X Riser Card slot 2 (support FH/HL adapter)	AC1	5077	Initial
	MC1		Initial
Addl Quad-Core Intel Xeon E5520 (2.26GHz 8MB L2 1066MHz FSB 80w)	AC1	7750	Initial
	MC1		Initial
Addl Quad-Core Intel Xeon L5506 (2.13GHz 4MB L2 800MHz FSB LV 60w)	AC1	7751	Initial
	MC1		Initial
Addl Quad-Core Intel Xeon E5540 (2.53GHz 8MB L2 1066MHz FSB 80w)	AC1	7752	Initial
	MC1		Initial

#### The Single Entity offerings (SEO)

Description	SEO number
IBM System x3550 M2	794612U 79463AU 794632U 794642U 794652U 794662U 794692U
IBM System x3550 M2 Express Models	7946E1U 7946E2U 7946E3U
Option SEOs	
Description	SEO number
Intel Xeon Processor E5502 2C 1.86 GHz 4 MB Cache 800 MHz	46M1077
Intel Xeon Processor E5504 4C 2.00 GHz 4 MB Cache 800 MHz	46M1078
Intel Xeon Processor E5506	46M1079

4C 2.13 GHz 4 MB Cache 800 MHz	
Intel Xeon Processor E5520 4C 2.26 GHz 8 MB Cache 1066 MHz	46M1081
Intel Xeon Processor L5520 4C 2.26 GHz 8 MB Cache 1066 MHz	46M1080
Intel Xeon Processor L5506 4C 2.13 GHz 4 MB Cache 800 MHz	46M1082
Intel Xeon Processor E5530 4C 2.40 GHz 8 MB Cache 1066 MHz	46M1083
Intel Xeon Processor E5540 4C 2.53 GHz 8 MB Cache 1066 MHz	46M1084
Intel Xeon Processor X5550 4C 2.66 GHz 8 MB Cache 1333 MHz	46M1085
Intel Xeon Processor X5560 4C 2.80 GHz 8 MB Cache 1333 MHz	46M1086
Intel Xeon Processor X5570 4C 2.93 GHz 8 MB Cache 1333 MHz	46M1087
1GB (1x1GB) PC3-10600 CL9 ECC DDR3 1333MHz Low Power LP RDIMM	44T1480
2GB (1x2GB) PC3-10600 CL9 ECC DDR3 1333MHz Low Power LP RDIMM	44T1481
2GB (1x2GB) PC3-10600 CL9 ECC DDR3 1333MHz Chipkill LP RDIMM	44T1482
4GB (1x4GB) PC3-10600 CL9 ECC DDR3 1333MHz Chipkill LP RDIMM	44T1483
PCI-Express Riser Card	46M1070
PCI-X Riser Card	46M1071

### **IBM Global Financing**

IBM Global Financing offers competitive financing to credit-qualified customers to assist them in acquiring IT solutions. Offerings include financing for IT acquisition, including hardware, software, and services, from both IBM and other manufacturers or vendors. Offerings (for all customer segments: small, medium, and large enterprise), rates, terms, and availability can vary by country. Contact your local IBM Global Financing organization or visit

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

IBM Global Financing offerings are provided through IBM Credit LLC in the United States, and other IBM subsidiaries and divisions worldwide to qualified commercial and government customers. Rates are based on a customer's credit rating, financing terms, offering type, equipment type, and options, and may vary by country. Other restrictions may apply. Rates and offerings are subject to change, extension, or withdrawal without notice.

Financing solutions from IBM Global Financing can help you stretch your budget and affordably acquire the new product. But beyond the initial acquisition, our end-to-end approach to IT management can also help keep your technologies current, reduce costs, minimize risk, and preserve your ability to make flexible equipment decisions throughout the entire technology life cycle.



---

## Order now

---

To order, contact the Americas Call Centers or your local IBM representative, or your IBM Business Partner.

To identify your local IBM representative or IBM Business Partner, call 800-IBM-4YOU (426-4968).

Phone: 800-IBM-CALL (426-2255)  
Fax: 800-2IBM-FAX (242-6329)  
Internet: [callserv@ca.ibm.com](mailto:callserv@ca.ibm.com)  
Mail: IBM Teleweb Customer Support  
ibm.com® Sales Execution Center, Americas North  
3500 Steeles Ave. East, Tower 3/4  
Markham, Ontario  
Canada  
L3R 2Z1

Reference: YE001

The Americas Call Centers, our national direct marketing organization, can add your name to the mailing list for catalogs of IBM products.

**Note:** Shipments will begin after the planned availability date.

### **Trademarks**

Intel and Xeon are registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

IBM Systems Director Active Energy Manager, ServerGuide, Chipkill, Hypervisor and ServiceSuite are trademarks of IBM Corporation in the United States, other countries, or both.

IBM, X-Architecture, Predictive Failure Analysis, Wake on LAN, System x, Tivoli, NetView, ServerProven, xSeries, BladeCenter, Netfinity, ServicePac and ibm.com are registered trademarks of IBM Corporation in the United States, other countries, or both.

Microsoft and Windows are registered trademarks of Microsoft Corporation in the United States, other countries, or both.

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

Other company, product, and service names may be trademarks or service marks of others.

### **Terms of use**

IBM products and services which are announced and available in your country can be ordered under the applicable standard agreements, terms, conditions, and prices in effect at the time. IBM reserves the right to modify or withdraw this announcement at any time without notice. This announcement is provided for your information only. Additional terms of use are located at:

<http://www.ibm.com/legal/us/en/>

For the most current information regarding IBM products, consult your IBM representative or reseller, or visit the IBM worldwide contacts page

<http://www.ibm.com/planetwide/us/>