

IBM System x3630 M4 servers include Intel Xeon E5-2400 series processors and a powerful multicore design with next-generation microarchitecture

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At a glance



The IBM® System x3630 M4 server offers a cost-effective high-capacity storage solution with exceptional energy-smart design, leadership virtualization, and powerful systems management. It supports up to two 8-core Intel Xeon™ processors and high-density memory designs with twelve DDR3 DIMM slots. This 2U-high System x3630 M4 is built on IBM X-Architecture®, consolidates storage and server as one, offers easy management, and saves floor space and power consumption, costing less money than traditional enterprise offerings.

Power, scalability, control, and serviceability for dynamic web-serving and business applications deliverable on demand:

- Ultrathin, high-availability, rack-optimized, 2U platform.
- Powerful Intel Xeon E5-2400 Series multicore processor with new microarchitecture design featuring Quick Path Interconnect (QPI) technology with Intel™ Extended Memory 64 Technology (EM64T).
- Support for both UDIMM and RDIMM; up to 16 GB of high-speed DDR3 SDRAM Registered DIMM memory in twelve DIMM slots that support up to 192 GB.
- Up to four or eight standard simple-swap 3.5-inch SATA hard disk drives (HDDs) and up to eight standard hot-swap 3.5-inch SAS/SATA HDDs in entry value model; up to 12 front and two rear standard hot-swap 3.5-inch SAS/SATA HDDs in storage-rich models.
- Two PCI-Express x8 high-performance PCIe 3.0 slots, and one x4 slot dedicated for internal hardware RAID. Two more PCI-Express x8 high-performance PCIe 3.0 slots are available with two CPUs installed when there is no rear HDD selected.
- 550-watt or 750-watt high-efficiency auto-ranging power supplies with 80-PLUS certifications.
- Integrated Management Module II (IMM2).
- Integrated dual Gigabit Ethernet standard for network communication plus two additional integrated dual Gigabit Ethernet on board available by Feature on Demand (FoD).

- One 16550-compatible serial port (rear), eight USB ports (two front, four rear, and two internal for USB tape and hypervisor), plus one VGA port at the back in storage rich models or two VGA ports (one front and one back) in entry value model.
- Windows™ Storage Server 2008 R2 Standard preload (model dependent).

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

Overview

Optimized for energy efficiency and performance

Innovative energy-smart design with powerful high-performance processors, a large capacity of high-performing DDR3 memory, and a balanced feature set make the x3630 M4 server ideal for many general-business applications:

- Latest Xeon E5-2400 series processors and a powerful multicore design to satisfy various user needs.
- Hot-swap and redundant 550W and 750W power supply units designed to meet 80-PLUS certification for greater energy efficiency and savings.
- Redundant cooling fans, low-voltage memory, and energy-smart design to enable lower power and help lower operational costs.
- Highly functional chipset optimized for better application computing supporting general-business workloads.
- Twelve DIMM slots that enable deployment of up to 192 GB of DDR3 SDRAM Registered DIMM memory, with up to 16 GB of memory standard.
- Up to four or eight standard simple-swap 3.5-inch SATA hard disk drives (HDDs) and up to eight standard hot-swap 3.5-inch SAS/SATA HDDs in entry value model; up to 12 front and two rear standard hot-swap 3.5-inch SAS/SATA HDDs in storage-rich models.
- Integrated dual Gigabit Ethernet standard for network communication with easy upgrade to additional Integrated dual Gigabit Ethernet onboard NIC by Feature on Demand (FoD).
- Support for embedded hypervisor port activated with optional USB key.
- Two PCI-Express x8 high-performance PCIe 3.0 slots, and one x4 slot dedicated for internal hardware RAID. Two more PCI-Express x8 high-performance PCIe 3.0 slots are available with 2 CPUs installed when there is no rear HDD selected.
- Built-in Integrated Management Module 2 (IMM2) with optional upgrade to remote presence via FoD, which supports a consistent management view across your portfolio and offers server monitoring, alerting, and remote control to lessen the time and cost spent supporting your system.
- Integrated IBM System x® ToolsCenter and ServerGuide to help you easily install and maintain the server.
- Windows Storage Server 2008 R2 Standard preload (model dependent).

Manage with efficiency

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

- Newly designed light path front panel in entry value models that allows you to identify system failures without opening the chassis or interrupting system operation. An optional upgrade through the Advanced Lightpath Upgrade Kit provides richer system serviceability.
- IBM Systems Director Active Energy Manager™ (AEM) for advanced power management, including real-time monitoring, trending, and reporting of power consumption.
- Memory Channel Mode for Independent/Mirroring/Sparing (Sparing model for Rank on Channel) configurable using Unified Extensible Firmware Interface (UEFI) setup.

- IMM2 systems management processor.
- Monitoring and control of operating status and key server components.
- Intelligent Platform Management Interface (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 select components that helps warn of problems before they occur.
- Fast and easy servicing through innovative light path diagnostics and improved onboard diagnostics.

Ultimate fault tolerant protection

- 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 at front HDDs backplane, and optional hot-swap at rear HDDs backplane.
- Embedded RAID-0/1/10 available for entry value models. All models are able to support advanced hardware RAID options (optional 0/1/10/5/50/6/60 with SED and optional cache or flash, battery or supercap).
- IBM Director and web support.
- Three-year, customer replaceable unit (CRU) and on-site labor¹, limited warranty²; optional warranty service upgrades available.

¹You may be asked certain diagnostic questions before a technician is sent.

²For information on IBM 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

May 31, 2012

Description

System x3630 M4-related options

System x3630 M4 servers feature an Intel Xeon multicore processor that supports internal processing speeds of up to 2.80 GHz, and processing operations to memory up to 1600 MHz. They contain integrated, full-speed L3 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 1066 MHz, 1333 MHz, or 1600 MHz processor-to-memory subsystem performance.

Additional features

- Powerful Intel multicore processor support
- System board containing 12 DIMM connectors, supporting 4 GB, 8 GB, or 16 GB DDR3 SDRAM Registered DIMM memory, with:
 - Support for up to 192 GB of system memory
 - Support for Chipkill memory
 - Support for two DIMMs Per Channel (2DPC) at 1600 MHz for Intel Xeon processors
- SATA controller
- Internal hardware RAID card support for high-speed (up to 6.0 Gbps) dual differential pairs to communicate with hot-swap SAS/SATA HDDs
- Intel Ethernet Controller I350 Dual Gigabit Ethernet on-board speeding network and additional Intel Ethernet Controller I350 Dual Gigabit Ethernet upgradeable via FoD for communications to LAN clients
- Windows Storage Server 2008 R2 Standard preload (model dependent)

The System x3630 M4 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
- Linux™ clusters
- File and print
- Virtualization
- Business analysis
- Online gaming
- Video and photo sharing
- Web searching
- Blogging and messaging
- Video recording
- Mail server (Notes® and Exchange)

High-availability and serviceability features

The System x3630 M4 server subsystem delivers excellent reliability and serviceability features:

- Up to four or eight standard simple-swap 3.5-inch HDDs and up to eight standard hot-swap 3.5-inch SAS/SATA HDDs in entry value model; up to 12 front and two rear standard hot-swap 3.5-inch SAS/SATA HDDs in storage-rich models
- 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
- ECC to improve data integrity and help reduce downtime
- PFA on memory and HDD options to help alert the system administrator of an imminent component failure
- Intel Gigabit Ethernet Controllers I350 that support:
 - Failover

- PXE 2.0 Boot Agent
- IPMI 2.0
- Wake on LAN
- Worldwide, voltage-sensing 550-watt or 750-watt high-efficiency power supplies with 80-PLUS certifications
- Up to three sets of counter-rotating fans that provide excellent cooling for added reliability:
 - Each power supply comes with its own internal cooling fan.
 - Redundant fans cool 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
 - Reboots server automatically
 - Generates alerts
 - Continues operations with the working processor

Expandability and growth

The System x3630 M4 server contains high levels of function and storage capacity for a 2U, 19-inch rack-drawer package. It supports customer installation of adapters, processors, memory, and HDD options. Functions such as SVGA video, SAS/SATA, and Gigabit Ethernet controller are integrated on the system board. An internal hardware RAID card is needed for system hot-swap SATA/SAS HDD drives. Features include:

- Rack-optimized design for 19-inch-wide, industry-standard rack cabinets (supported in the NetBAY42 and NetBAY25)
- Twelve DIMM connectors capable of support for up to 192 GB of system memory
- Twelve plus two hot-swap 3.5-inch SAS/SATA HDD bays

Systems management

IMM: The System x3630 M4 includes an 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 (for example, xCAT).

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 monitoring (power, HDD, activity, alerts, and heartbeat)
- Identify LED control
- An embedded web server that enables remote control from any standard web browser; no additional software is required on the remote administrator's workstation
- The ability for administrators to use the command-line interface (CLI) from a Telnet session to perform some of the functions that can be performed from the web server
- Secure Sockets Layer (SSL) and Lightweight Directory Access Protocol (LDAP)
- Built-in LAN and serial connectivity that supports virtually any network infrastructure
- Multiple alerting functions that warn systems administrators of potential problems through email, IPMI PETs, and SNMP

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 FoD. 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 available 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 x3630 M4 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:

- Reducing downtime
- Increasing productivity of IT personnel and end users
- Reducing service and support costs

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

IBM 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
 - HDDs
- Define automated actions, such as:
 - Send email or page to an administrator
 - Execute a command or program
 - Deliver 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 x3630 M4 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 customer replaceable unit (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 Predictive Failure Analysis (PFA).
- The ServerProven® program lets you confidently configure your server with various devices and operating systems. This program provides compatibility information from actual testing of the System x3630 M4 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.

Note: 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.

Standard System x3630 M4 configurations

Model number	Processor	Memory	GTS	HDD interface	HDD	Other
7158A2x	1.8 GHz Cache: 10 MB	4 GB 10 MB	6.4	S/S SAS/SATA	3.5-in	Open Bay Optical-Optional
7158A4x	1.8 GHz Cache: 10 MB	4 GB 10 MB	6.4	S/S SAS/SATA	3.5-in	Open Bay Optical-Optional
7158B2x	2.2 GHz Cache: 10 MB	4 GB 10 MB	6.4	H/S SAS/SATA	3.5-in	Open Bay Optical-Optional
7158B4x	2.2 GHz Cache: 10 MB	4 GB 10 MB	6.4	H/S SAS/SATA	3.5-in	Open Bay Optical-None
7158C2x	1.9 GHz Cache: 15 MB	4 GB 15 MB	7.2	H/S SAS/SATA	3.5-in	Open Bay Optical-Optional
7158C4x	1.9 GHz Cache: 15 MB	8 GB 15 MB	7.2	H/S SATA 1 x 500 GB	3.5-in	Open Bay Multiburner
7158C6x	1.9 GHz Cache: 15 MB	8 GB 15 MB	7.2	H/S SATA 1 x 500 GB	3.5-in	Open Bay Optical-None
7158D2x	2.2 GHz Cache: 15 MB	4 GB 15 MB	7.2	H/S SATA	3.5-in	Open Bay Optical-None
7158F2x	2.4 GHz Cache: 15 MB	4 GB 15 MB	7.2	H/S SAS/SATA	3.5-in	Open Bay Optical-None
7158F4x	2.4 GHz Cache: 15 MB	4 GB 15 MB	7.2	H/S SAS/SATA	3.5-in	Open Bay Optical-Optional
7158G2x	2.1 GHz Cache: 20 MB	4 GB 20 MB	8.0	H/S SAS/SATA	3.5-in	Open Bay Optical-Optional
7158H2x	2.3 GHz Cache: 20 MB	8 GB 20 MB	8.0	H/S SAS/SATA	3.5-in	Open Bay Optical-None
7158J2x	1.8 GHz Cache: 20 MB	4 GB 20 MB	8.0	H/S SAS/SATA	3.5-in	Open Bay Optical-None

Note: The model "x" designation is geography-dependent and is spelled out explicitly in the [Product number](#) section.

Express® models:

Model number	Processor	Memory	GTS	HDD interface	HDD	Other
7158EAX	2.2 GHz Cache: 10 MB	8 GB 10 MB	6.4	S/S SAS/SATA	3.5-in	Open Bay Multiburner
7158EBX	1.9 GHz Cache: 15 MB	8 GB 15 MB	7.2	S/S SAS/SATA	3.5-in	Open Bay Multiburner
7158ECX	2.4 GHz Cache: 15 MB	8 GB 15 MB	7.2	S/S SAS/SATA	3.5-in	Open Bay Multiburner

Product positioning

System x3630 M4 is a 2U, dual-socket rack server for single or multiple general-business application hosting built on innovative IBM X-Architecture leveraging Intel QPI technology. Featuring power-optimized, high-performance Intel Xeon multicore

processors, and an energy-efficient design with balanced functionality, the System x3630 M4 can help reduce cost, improve service, and allow you to manage risk easily and simply.

The System x3630 M4 is suitable for mid-market and SMB rack clients looking to optimize their IT budgets, and is designed for single or multiple general-business application hosting and virtualized, nonblade environments.

Optimized for speed

The new System x3630 M4 server models offer new levels of fast Intel Xeon multicore processors with up to 8.0 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 twelve DIMM slots for a maximum of 192 GB of ECC DDR3 SDRAM.

Intel Turbo Boost Technology is one of the many exciting new features that Intel has built into the latest-generation Intel microarchitecture. It automatically allows processor cores to run faster than the base operating frequency if they are operating below power, current, and temperature specification limits.

Innovation comes standard

- Boost application efficiency with snoop filters that free up cache and improve processor performance.
- A basic light path improves in-rack manageability and allows easy problem identification.

Ultimate fault tolerant protection

- Memory mirroring/sparing/independent feature enables you to increase memory reliability.

Target applications

- Database
- Email collaboration
- Online gaming
- Video and photo sharing
- Web searching
- Blogging and messaging
- Video recording
- Mail server (Notes and Exchange)
- File and print
- Virtualization
- Linux clustering
- Scientific and technical computing

Product number

The following are features already announced for the 7158 machine type:

Description	MT	Model	Feature
7158-AC1	7158	AC1	
7158-MC1	7158	MC1	
QLogic 10Gb SFP+ SR Optical Transceiver	7158	AC1	0064
		MC1	
Brocade 10Gb SFP+ SR Optical Transceiver	7158	AC1	0069
		MC1	
UID Asset Tag Label	7158	AC1	0747

		MC1	
NetXtreme II 1000 Express G Ethernet Adapter- PCIe	7158	AC1	1485
		MC1	
Brocade 10Gb CNA for IBM System x	7158	AC1	1637
		MC1	
Emulex 4Gb FC Single-Port PCI-E HBA for IBM System x	7158	AC1	1698
		MC1	
Emulex 4Gb FC Dual-Port PCI-E HBA for IBM System x	7158	AC1	1699
		MC1	
EMEA Long Leadtime Configurations	7158	AC1	1763
		MC1	
Hungary CHW plant 9SH	7158	AC1	1764
		MC1	
Guad CHW plant 9KQ	7158	AC1	1765
		MC1	
ISTC CHW 9K2	7158	AC1	1766
		MC1	
RTP CHW 9NR	7158	AC1	1767
		MC1	
Offload Manufacturing to Guadalajara HVEC	7158	AC1	1768
		MC1	
Offload Manufacturing to RTP HVEC	7158	AC1	1769
		MC1	
Offload Manufacturing to ISTC	7158	AC1	1770
		MC1	
Routing for AP Foxconn	7158	AC1	1771
		MC1	
Capacity Scheduling Service	7158	AC1	1772
		MC1	
Custom SLA Scheduling Service	7158	AC1	1796
		MC1	
Custom Asset Tagging - Standard	7158	AC1	2200
		MC1	
Custom Asset Tagging - Enhanced	7158	AC1	2201
		MC1	
Custom Image Load - Server	7158	AC1	2204
		MC1	
Custom Media Shipgroup	7158	AC1	2206
		MC1	
Request for Global Trade Number (UPC or EAN)	7158	AC1	2207
		MC1	
Custom Software/Firmware Setting - Standard	7158	AC1	2208
		MC1	
Custom Software/Firmware Setting - Enhanced	7158	AC1	2209
		MC1	
Custom RAID Configuration	7158	AC1	2212
		MC1	
Custom Labeling	7158	AC1	2220
		MC1	
Custom Palletization	7158	AC1	2221
		MC1	
Request for a new Vendor Logo Hardware	7158	AC1	2247
		MC1	
Request for an existing IBM Feature	7158	AC1	2248
		MC1	
Request for an existing Public RPQ	7158	AC1	2249
		MC1	
RAID Configuration	7158	AC1	2302
		MC1	
Rack Installation >1U Component	7158	AC1	2306
		MC1	
Primary Array 12 HDDs	7158	AC1	2400
		MC1	
Primary Array 13 HDDs	7158	AC1	2401
		MC1	
Primary Array 14 HDDs	7158	AC1	2402
		MC1	
Secondary Array 9 HDDs	7158	AC1	2405
		MC1	
Secondary Array 10 HDDs	7158	AC1	2406
		MC1	
Secondary Array 11 HDDs	7158	AC1	2407
		MC1	

Secondary Array 12 HDDs	7158	AC1	2408
		MC1	
PRO/1000 PF Server Adapter	7158	AC1	2975
		MC1	
NetXtreme II 1000 Express Dual Port Ethernet Adapter	7158	AC1	2995
		MC1	
Rack 01	7158	AC1	3101
		MC1	
Rack 02	7158	AC1	3102
		MC1	
Rack 03	7158	AC1	3103
		MC1	
Rack 04	7158	AC1	3104
		MC1	
Rack 05	7158	AC1	3105
		MC1	
Rack 06	7158	AC1	3106
		MC1	
Rack 07	7158	AC1	3107
		MC1	
Rack 08	7158	AC1	3108
		MC1	
Rack 09	7158	AC1	3109
		MC1	
Rack 10	7158	AC1	3110
		MC1	
Rack 11	7158	AC1	3111
		MC1	
Rack 12	7158	AC1	3112
		MC1	
Rack 13	7158	AC1	3113
		MC1	
Rack 14	7158	AC1	3114
		MC1	
Rack 15	7158	AC1	3115
		MC1	
Rack 16	7158	AC1	3116
		MC1	
Rack 17	7158	AC1	3117
		MC1	
Rack 18	7158	AC1	3118
		MC1	
Rack 19	7158	AC1	3119
		MC1	
Rack 20	7158	AC1	3120
		MC1	
Rack 21	7158	AC1	3121
		MC1	
Rack 22	7158	AC1	3122
		MC1	
Rack 23	7158	AC1	3123
		MC1	
Rack 24	7158	AC1	3124
		MC1	
Rack 25	7158	AC1	3125
		MC1	
Rack 26	7158	AC1	3126
		MC1	
Rack 27	7158	AC1	3127
		MC1	
Rack 28	7158	AC1	3128
		MC1	
Rack 29	7158	AC1	3129
		MC1	
Rack 30	7158	AC1	3130
		MC1	
Rack 31	7158	AC1	3131
		MC1	
Rack 32	7158	AC1	3132
		MC1	
Rack 33	7158	AC1	3133
		MC1	
Rack 34	7158	AC1	3134

		MC1	
Rack 35	7158	AC1	3135
		MC1	
Rack 36	7158	AC1	3136
		MC1	
Rack 37	7158	AC1	3137
		MC1	
Rack 38	7158	AC1	3138
		MC1	
Rack 39	7158	AC1	3139
		MC1	
Rack 40	7158	AC1	3140
		MC1	
Rack 41	7158	AC1	3141
		MC1	
Rack 42	7158	AC1	3142
		MC1	
Rack 43	7158	AC1	3143
		MC1	
Rack 44	7158	AC1	3144
		MC1	
Rack 45	7158	AC1	3145
		MC1	
Rack 46	7158	AC1	3146
		MC1	
Rack 47	7158	AC1	3147
		MC1	
Rack 48	7158	AC1	3148
		MC1	
Rack 49	7158	AC1	3149
		MC1	
Rack 50	7158	AC1	3150
		MC1	
Rack 51	7158	AC1	3151
		MC1	
Rack 52	7158	AC1	3152
		MC1	
Rack 53	7158	AC1	3153
		MC1	
Rack 54	7158	AC1	3154
		MC1	
Rack 55	7158	AC1	3155
		MC1	
Rack 56	7158	AC1	3156
		MC1	
Rack 57	7158	AC1	3157
		MC1	
Rack 58	7158	AC1	3158
		MC1	
Rack 59	7158	AC1	3159
		MC1	
Rack 60	7158	AC1	3160
		MC1	
Rack 61	7158	AC1	3161
		MC1	
Rack 62	7158	AC1	3162
		MC1	
Rack 63	7158	AC1	3163
		MC1	
Rack 64	7158	AC1	3164
		MC1	
Rack location U01	7158	AC1	3201
		MC1	
Rack location U02	7158	AC1	3202
		MC1	
Rack location U03	7158	AC1	3203
		MC1	
Rack location U04	7158	AC1	3204
		MC1	
Rack location U05	7158	AC1	3205
		MC1	
Rack location U06	7158	AC1	3206
		MC1	
Rack location U07	7158	AC1	3207

		MC1	
Rack location U08	7158	AC1	3208
		MC1	
Rack location U09	7158	AC1	3209
		MC1	
Rack location U10	7158	AC1	3210
		MC1	
Rack location U11	7158	AC1	3211
		MC1	
Rack location U12	7158	AC1	3212
		MC1	
Rack location U13	7158	AC1	3213
		MC1	
Rack location U14	7158	AC1	3214
		MC1	
Rack location U15	7158	AC1	3215
		MC1	
Rack location U16	7158	AC1	3216
		MC1	
Rack location U17	7158	AC1	3217
		MC1	
Rack location U18	7158	AC1	3218
		MC1	
Rack location U19	7158	AC1	3219
		MC1	
Rack location U20	7158	AC1	3220
		MC1	
Rack location U21	7158	AC1	3221
		MC1	
Rack location U22	7158	AC1	3222
		MC1	
Rack location U23	7158	AC1	3223
		MC1	
Rack location U24	7158	AC1	3224
		MC1	
Rack location U25	7158	AC1	3225
		MC1	
Rack location U26	7158	AC1	3226
		MC1	
Rack location U27	7158	AC1	3227
		MC1	
Rack location U28	7158	AC1	3228
		MC1	
Rack location U29	7158	AC1	3229
		MC1	
Rack location U30	7158	AC1	3230
		MC1	
Rack location U31	7158	AC1	3231
		MC1	
Rack location U32	7158	AC1	3232
		MC1	
Rack location U33	7158	AC1	3233
		MC1	
Rack location U34	7158	AC1	3234
		MC1	
Rack location U35	7158	AC1	3235
		MC1	
Rack location U36	7158	AC1	3236
		MC1	
Rack location U37	7158	AC1	3237
		MC1	
Rack location U38	7158	AC1	3238
		MC1	
Rack location U39	7158	AC1	3239
		MC1	
Rack location U40	7158	AC1	3240
		MC1	
Rack location U41	7158	AC1	3241
		MC1	
Rack location U42	7158	AC1	3242
		MC1	
QLogic 4Gb FC Single-Port PCIe HBA for IBM System x	7158	AC1	3567
		MC1	

QLogic 4Gb FC Dual-Port PCIe HBA for IBM System x	7158	AC1 MC1	3568
QLogic 8Gb FC Single-port HBA for IBM System x	7158	AC1 MC1	3578
QLogic 8Gb FC Dual-port HBA for IBM System x	7158	AC1 MC1	3579
Emulex 8Gb FC Single-port HBA for IBM System x	7158	AC1 MC1	3580
Emulex 8Gb FC Dual-port HBA for IBM System x	7158	AC1 MC1	3581
Brocade 8Gb FC Single-port HBA for IBM System x	7158	AC1 MC1	3589
Brocade 8Gb FC Dual-port HBA for IBM System x	7158	AC1 MC1	3591
1m LC-LC Fiber Cable (networking)	7158	AC1 MC1	3700
5m LC-LC Fiber Cable (networking)	7158	AC1 MC1	3701
25m LC-LC Fiber Cable (networking)	7158	AC1 MC1	3702
IBM 3M SAS Cable	7158	AC1 MC1	3707
IBM 1M SAS Cable	7158	AC1 MC1	3708
IBM USB Conversion Option Pack	7158	AC1 MC1	3756
IBM Single Cable USB Conversion Option (UCO)	7158	AC1 MC1	3757
0.6m Yellow Cat5e Cable	7158	AC1 MC1	3791
1.5m Yellow Cat5e Cable	7158	AC1 MC1	3792
3m Yellow Cat5e Cable	7158	AC1 MC1	3793
10m Yellow Cat5e Cable	7158	AC1 MC1	3794
25m Yellow Cat5e Cable	7158	AC1 MC1	3795
0.6m Green Cat5e Cable	7158	AC1 MC1	3796
1.5m Green Cat5e Cable	7158	AC1 MC1	3797
3m Green Cat5e Cable	7158	AC1 MC1	3798
10m Green Cat5e Cable	7158	AC1 MC1	3799
25m Green Cat5e Cable	7158	AC1 MC1	3800
0.6m Blue Cat5e Cable	7158	AC1 MC1	3801
1.5m Blue Cat5e Cable	7158	AC1 MC1	3802
3m Blue Cat5e Cable	7158	AC1 MC1	3803
10m Blue Cat5e Cable	7158	AC1 MC1	3804
25m Blue Cat5e Cable	7158	AC1 MC1	3805
IBM 6Gb Performance Optimized HBA	7158	AC1 MC1	3876
Brocade 4Gb FC Single-port HBA for IBM System x	7158	AC1 MC1	3885
Brocade 4Gb FC Dual-port HBA for IBM System x	7158	AC1 MC1	3886
IBM UltraSlim Enhanced SATA DVD-ROM	7158	AC1 MC1	4161
IBM UltraSlim Enhanced SATA Multi-Burner	7158	AC1 MC1	4163
IBM Serial Conversion Option (SCO)	7158	AC1 MC1	5340
IBM Virtual Media Conversion Option Gen2 (VC02)	7158	AC1 MC1	5341
IBM DDS Gen 6 USB Tape Drive	7158	AC1 MC1	5395

NetXtreme II 10 GbE Express Fiber SR Adapter	7158	AC1 MC1	5451
IBM RDX 160GB Cartridge	7158	AC1 MC1	5707
IBM RDX 320GB Cartridge	7158	AC1 MC1	5708
IBM RDX 500GB Cartridge	7158	AC1 MC1	5709
IBM RDX Internal USB Dock	7158	AC1 MC1	5710
IBM DDS Generation 5 USB Tape Drive	7158	AC1 MC1	5711
QLogic 10Gb CNA for IBM System x	7158	AC1 MC1	5751
NetXtreme II 1000 Express Quad Port Ethernet Adapter	7158	AC1 MC1	5766
Intel Ethernet Dual Port Server Adapter I340-T2 for IBM System x	7158	AC1 MC1	5767
Intel Ethernet Quad Port Server Adapter I340-T4 for IBM System x	7158	AC1 MC1	5768
SL Optical Filler Bezel	7158	AC1 MC1	5781
Select Storage devices - no IBM-configured RAID required	7158	AC1 MC1	5977
Select Storage devices - IBM-configured RAID	7158	AC1 MC1	5978
IBM 6Gb SAS HBA	7158	AC1 MC1	5982
1.5m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable	7158	AC1 MC1	6201
2.8m, 10A/100-250V, C13 to IEC 320-C20 Rack Power Cable	7158	AC1 MC1	6204
4.3m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable	7158	AC1 MC1	6263
2.8m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable	7158	AC1 MC1	6311
Rack power cable - 2.0m, 125-250V, C13 to IEC 320-C14 (WW)	7158	AC1 MC1	6316
Line cord - 2.8m, 10A/230V, C13 to CEE7-VII (Europe)	7158	AC1 MC1	6212
China warranty for Models MC1, AC1	7158	AC1 MC1	7599
Software Application (Not Preinstalled) Specify	7158	AC1 MC1	A0UF
4GB (1x4GB, 1Rx4, 1.5V) PC3-12800 CL11 ECC DDR3 1600MHZ LP RDIMM	7158	AC1 MC1	A28Z
16GB (1x16GB, 2Rx4, 1.35V) PC3L-10600 CL9 ECC DDR3 1333MHZ LP RDIMM	7158	AC1 MC1	A1QT
8GB (1x8GB, 2Rx4, 1.5V) PC3-12800 CL11 ECC DDR3 1600MHZ LP RDIMM	7158	AC1 MC1	A292
IBM MAX5 for System x Memory DIMM Filler	7158	AC1 MC1	6437
Primary Array 2 HDDs	7158	AC1 MC1	7008
Primary Array 3 HDDs	7158	AC1 MC1	7009
Primary Array 4 HDDs	7158	AC1	7010

		MC1	
Primary Array 5 HDDs	7158	AC1	7011
		MC1	
Primary Array 6 HDDs	7158	AC1	7012
		MC1	
Primary Array 7 HDDs	7158	AC1	7013
		MC1	
Primary Array 8 HDDs	7158	AC1	7014
		MC1	
Secondary Array 2 HDDs	7158	AC1	7015
		MC1	
Secondary Array 3 HDDs	7158	AC1	7016
		MC1	
Secondary Array 4 HDDs	7158	AC1	7017
		MC1	
Secondary Array 5 HDDs	7158	AC1	7057
		MC1	
Secondary Array 6 HDDs	7158	AC1	7058
		MC1	
Secondary Array 7 HDDs	7158	AC1	7059
		MC1	
Secondary Array 8 HDDs	7158	AC1	7060
		MC1	
2U Bracket for Brocade 4Gb FC Single-port HBA for IBM System x	7158	AC1	7633
		MC1	
2U Bracket for Brocade 4Gb FC Dual-port HBA for IBM System x	7158	AC1	7634
		MC1	
Primary Array 9 HDDs	7158	AC1	7664
		MC1	
Grouped Product	7158	AC1	7830
		MC1	
Customer Solution Center Services	7158	AC1	7831
		MC1	
e1350 Special Bid Solution Component	7158	AC1	7929
		MC1	
No HDD Selected	7158	AC1	8026
		MC1	
Consolidate Shipment	7158	AC1	8031
		MC1	
e1350 Solution Component	7158	AC1	8034
Compute Node	7158	AC1	8036
		MC1	
Management Node	7158	AC1	8037
		MC1	
Storage Node	7158	AC1	8038
		MC1	
TAA Compliant Order	7158	AC1	8067
		MC1	
General Racking Solution	7158	AC1	8072
		MC1	
No SATA HDD Selected	7158	AC1	8080
		MC1	
No 2.5" SAS HDD Selected	7158	AC1	8081
		MC1	
No 3.5" SAS HDD Selected	7158	AC1	8082
		MC1	
No Publications Selected	7158	AC1	8086
		MC1	
4GB (1x4GB, 2Rx8, 1.35V) PC3L-10600 CL9 ECC DDR3 1333MHZ LP UDIMM	7158	AC1	8648
		MC1	
8GB (1x8GB, 2Rx4, 1.35V) PC3L-10600 CL9 ECC DDR3 1333MHZ LP RDIMM	7158	AC1	8923
		MC1	
2GB (1x2GB, 1Rx8, 1.35V) PC3L-10600 CL9 ECC DDR3 1333MHZ LP RDIMM	7158	AC1	8940
		MC1	
4GB (1x4GB, 1Rx4, 1.35V) PC3L-10600 CL9 ECC DDR3 1333MHZ LP RDIMM	7158	AC1	8941
		MC1	
4GB (1x4GB, 2Rx8, 1.35V) PC3L-10600 CL9A ECC DDR3 1333MHZ LP RDIMM	7158	AC1	8942

		MC1	
Integrate in manufacturing	7158	AC1	8971
		MC1	
Ship Uninstalled (Safety)	7158	AC1	8972
		MC1	
Hot Spare	7158	AC1	9013
		MC1	
Enable Memory Mirroring	7158	AC1	9017
		MC1	
Storage Subsystem ID 01	7158	AC1	9170
		MC1	
Storage Subsystem ID 02	7158	AC1	9171
		MC1	
Storage Subsystem ID 03	7158	AC1	9172
		MC1	
Storage Subsystem ID 04	7158	AC1	9173
		MC1	
Storage Subsystem ID 05	7158	AC1	9174
		MC1	
Storage Subsystem ID 06	7158	AC1	9175
		MC1	
Storage Subsystem ID 07	7158	AC1	9176
		MC1	
Storage Subsystem ID 08	7158	AC1	9177
		MC1	
Storage Subsystem ID 09	7158	AC1	9178
		MC1	
Storage Subsystem ID 10	7158	AC1	9179
		MC1	
Storage Subsystem ID 11	7158	AC1	9180
		MC1	
Storage Subsystem ID 12	7158	AC1	9181
		MC1	
Storage Subsystem ID 13	7158	AC1	9182
		MC1	
Storage Subsystem ID 14	7158	AC1	9183
		MC1	
Storage Subsystem ID 15	7158	AC1	9184
		MC1	
Storage Subsystem ID 16	7158	AC1	9185
		MC1	
Storage Subsystem ID 17	7158	AC1	9186
		MC1	
Storage Subsystem ID 18	7158	AC1	9187
		MC1	
Storage Subsystem ID 19	7158	AC1	9188
		MC1	
Storage Subsystem ID 20	7158	AC1	9189
		MC1	
Preload Specify	7158	AC1	9200
		MC1	
Windows Specify	7158	MC1	9201
Red Hat Specify	7158	AC1	9202
SUSE Specify	7158	AC1	9203
Drop-in-the-Box Specify	7158	AC1	9205
		MC1	
No Preload Specify	7158	AC1	9206
		MC1	
VMware Specify	7158	AC1	9207
		MC1	
Preload by Hardware Feature Specify	7158	AC1	9220
		MC1	
1 meter internal USB cable	7158	AC1	9266
		MC1	
2U Bracket for Emulex 10GbE Virtual Fabric Adapter for IBM System x	7158	AC1	9297
		MC1	
Primary Array 10 HDDs	7158	AC1	9714
		MC1	
Primary Array 11 HDDs	7158	AC1	9715
		MC1	
Advanced Grouping	7158	AC1	A102
		MC1	
NVIDIA Quadro 600	7158	AC1	A13K

		MC1	
Broadcom NetXtreme II Dual Port 10GbBaseT Adapter for IBM System x	7158	AC1 MC1	A18Y
2U Bracket for Broadcom NetXtreme II Dual Port 10GbBaseT Adapter	7158	AC1 MC1	A190
IBM 3.5" Hot Swap Filler	7158	AC1 MC1	A1FD
IBM 3.5" Simple Swap Filler	7158	AC1 MC1	A1FE
IBM System x 750W High Efficiency Platinum AC Power Supply	7158	AC1 MC1	A1H5
IBM System x 550W High Efficiency Platinum AC Power Supply	7158	AC1 MC1	A1H6
ServerRAID M5100 Series 512MB Cache/RAID 5 Upgrade for IBM System x	7158	AC1 MC1	A1J3
ServerRAID M5100 Series 512MB Flash/RAID 5 Upgrade for IBM System x	7158	AC1 MC1	A1J4
IBM System x Lightpath Kit	7158	AC1 MC1	A1LF
Mellanox ConnectX-2 Dual Port 10GbE Adapter for IBM System x	7158	AC1 MC1	A1M4
IBM Integrated Management Module Advanced Upgrade	7158	AC1 MC1	A1ML
ServerRAID M1115 SAS/SATA Controller for IBM System x	7158	AC1 MC1	A1MZ
2U Bracket for Mellanox ConnectX-2 Dual Port 10GbE Adapter	7158	AC1 MC1	A1NQ
ServerRAID M5120 SAS/SATA Controller for IBM System x	7158	AC1 MC1	A1WX
ServerRAID M5100 Series 1GB Flash/RAID 5 Upgrade for IBM System x	7158	AC1 MC1	A1WY
ServerRAID M1100 Series Zero Cache/RAID 5 Upgrade for IBM System x	7158	AC1 MC1	A1X1
ServerRAID M5100 Series Zero Cache/RAID 5 Upgrade for IBM System x	7158	AC1 MC1	A1X2
ServerRAID M5100 Series RAID 6 Upgrade for IBM System x	7158	AC1 MC1	A1X3
ServerRAID H1110 SAS/SATA Controller for IBM System x	7158	AC1 MC1	A1XL
Intel Xeon Processor E5-2470 8C 2.3GHz 20MB Cache 1600MHz 95W	7158	AC1 MC1	A1YG
Intel Pentium™ processor 1403 2C 2.6GHz 5MB cache 1066MHz 80W	7158	AC1 MC1	A1YH
Intel Xeon Processor E5-2450 8C 2.1GHz 20MB Cache 1600MHz 95W	7158	AC1 MC1	A1YJ
Intel Xeon Processor E5-2440 6C 2.4GHz 15MB Cache 1333MHz 95W	7158	AC1 MC1	A1YK
Intel Xeon Processor E5-2430 6C 2.2GHz 15MB Cache 1333MHz 95W	7158	AC1 MC1	A1YL
Intel Pentium processor 1407 2C 2.68Hz 5MB cache 1066MHz 80W	7158	AC1 MC1	A1YM

Intel Xeon Processor E5-2420 6C 1.9GHz 15MB Cache 1333MHz 95W	7158	AC1 MC1	A1YN
Intel Xeon Processor E5-2407 4C 2.2GHz 10MB Cache 1066MHz 80W	7158	AC1 MC1	A1YP
Intel Xeon Processor E5-2403 4C 1.8GHz 10MB Cache 1066MHz 80W	7158	AC1 MC1	A1YQ
Intel Xeon Processor E5-2450L 8C 1.8GHz 20MB Cache 1600MHz 70W	7158	AC1 MC1	A1YR
Intel Xeon Processor E5-2430L 6C 2.0GHz 15MB Cache 1333MHz 60W	7158	AC1 MC1	A1YS
Addl Intel Xeon Processor E5-2470 8C 2.3GHz 20MB Cache 1600MHz 95W	7158	AC1 MC1	A1YU
Addl Intel Xeon Processor E5-2450 8C 2.1GHz 20MB Cache 1600MHz 95W	7158	AC1 MC1	A1YW
Addl Intel Xeon Processor E5-2440 6C 2.4GHz 15MB Cache 1333MHz 95W	7158	AC1 MC1	A1YX
Addl Intel Xeon Processor E5-2430 6C 2.2GHz 15MB Cache 1333MHz 95W	7158	AC1 MC1	A1YY
Addl Intel Xeon Processor E5-2420 6C 1.9GHz 15MB Cache 1333MHz 95W	7158	AC1 MC1	A1Z0
Addl Intel Xeon Processor E5-2407 4C 2.2GHz 10MB Cache 1066MHz 80W	7158	AC1 MC1	A1Z1
Addl Intel Xeon Processor E5-2403 4C 1.8GHz 10MB Cache 1066MHz 80W	7158	AC1 MC1	A1Z2
Addl Intel Xeon Processor E5-2450L 8C 1.8GHz 20MB Cache 1600MHz 70W	7158	AC1 MC1	A1Z3
Addl Intel Xeon Processor E5-2430L 6C 2.0GHz 15MB Cache 1333MHz 60W	7158	AC1 MC1	A1Z4
x3630 M4 Planar	7158	AC1 MC1	A1Z6
3.5" Hot Swap BP Bracket Assembly , 8 x 3.5"	7158	AC1 MC1	A1Z7
3.5" Hot Swap BP Bracket Assembly, 12 x 3.5"	7158	AC1 MC1	A1Z8
3.5" Hot Swap Cage Assembly, Rear, 2 x 3.5"	7158	AC1 MC1	A1Z9
PCIe Riser Card 1 (1 x8 FH/HL + 1 x8 LP Slots)	7158	AC1 MC1	A1ZA
PCIe Riser Card 1 (1 x16 FH/HL Slot) for Graphic card	7158	AC1 MC1	A1ZB
PCIe Riser Card 2 (1 x4 LP for Slotless RAID)	7158	AC1 MC1	A1ZC
PCIe Riser Card 2 (1 x8 LP for Slotless RAID)	7158	AC1 MC1	A1ZD
PCIe Riser Card 1 (1 x8 FH/FL + 1 x8 FH/HL Slots)	7158	AC1 MC1	A1ZE
PCIe Riser Card 2 (2 x8 LP Slots + 1 x4 LP for Slotless RAID)	7158	AC1 MC1	A1ZF
PCIe Riser Card 1 (1 x16 FH/FL Slot)	7158	AC1 MC1	A1ZG
PCIe Riser Card 2 (1 x16 LP Slot + 1 x4 LP for Slotless RAID)	7158	AC1 MC1	A1ZH
EIA USB Board	7158	AC1 MC1	A1ZJ
EIA OP Board	7158	AC1 MC1	A1ZK
x3630 M4 ODD Cage assembly	7158	AC1	A1ZL

		MC1	
USB Tape Drive Cage assembling kit	7158	AC1	A1ZM
		MC1	
3.5" Simple Swap Bracket ASM Kit , 8 x 3.5"	7158	AC1	A1ZN
		MC1	
3.5" Simple Swap Bracket ASM Kit , 4 x 3.5"	7158	AC1	A1ZP
		MC1	
Label GBM	7158	AC1	A1ZV
		MC1	
2x2 HDD BRACKET	7158	AC1	A1ZX
		MC1	
x3630M4 Storage-Rich EIA LED cover kit	7158	AC1	A1ZY
		MC1	
x3630M4 Storage-Rich EIA USB cover kit	7158	AC1	A200
		MC1	
x3630M4 Entry EIA LED cover kit	7158	AC1	A201
		MC1	
x3630M4 Entry EIA USB cover kit	7158	AC1	A203
		MC1	
USB Tape Drive Enablement Kit	7158	AC1	A204
		MC1	
FPIO Enablement Kit	7158	AC1	A206
		MC1	
RAIL KIT	7158	AC1	A207
		MC1	
Simple Swap DUMMY Filler	7158	AC1	A208
		MC1	
CFF PSU FILLER	7158	AC1	A209
		MC1	
1U RIASER CAGE - SLOT 2	7158	AC1	A20B
		MC1	
1U BUTTERFLY RIASER CAGE - SLOT 1	7158	AC1	A20C
		MC1	
2U RIASER CAGE - SLOT 1	7158	AC1	A20D
		MC1	
2U BUTTERFLY RIASER CAGE - SLOT 2	7158	AC1	A20E
		MC1	
REAR 2U RISER CAGE Filler	7158	AC1	A20H
		MC1	
BIOS GBM	7158	AC1	A20J
		MC1	
x3630 M4 Chassis ASM w/o Planar	7158	AC1	A20L
		MC1	
x3630 M4 Package	7158	AC1	A20P
		MC1	
System Documentation and Software-US English	7158	AC1	A20R
		MC1	
Super Cap Cable 875MM	7158	AC1	A22C
		MC1	
ServerAID M5100 Series Battery Kit for IBM System x	7158	AC1	A22E
		MC1	
950MM Cable for ServRAID M5100 Series Battery Kit	7158	AC1	A22G
		MC1	
2U Bracket for ServerAID M5120 SAS/SATA Controller	7158	AC1	A22L
		MC1	
IBM 1TB 7.2K 6Gbps NL SATA 3.5" G2HS HDD	7158	AC1	A22P
		MC1	
IBM 3TB 7.2K 6Gbps NL SATA 3.5" G2HS HDD	7158	AC1	A22S
		MC1	
IBM 2TB 7.2K 6Gbps NL SATA 3.5" G2HS HDD	7158	AC1	A22T
		MC1	
IBM 500GB 7.2K 6Gbps NL SATA 3.5" G2SS HDD	7158	AC1	A22U
		MC1	
IBM 3TB 7.2K 6Gbps NL SATA 3.5" G2SS HDD	7158	AC1	A22V
		MC1	
IBM 2TB 7.2K 6Gbps NL SATA 3.5" G2SS HDD	7158	AC1	A22W
		MC1	
IBM 1TB 7.2K 6Gbps NL SATA 3.5" G2SS HDD	7158	AC1	A22X
		MC1	
IBM 500GB 7.2K 6Gbps NL SATA 3.5" G2HS HDD	7158	AC1	A22Y
		MC1	

IBM 1TB 7.2K 6Gbps NL SAS 3.5" G2HS HDD	7158	AC1 MC1	A26M
x3630 M3 Agency Label	7158	AC1 MC1	A288
Label KC	7158	AC1 MC1	A2CM
Intel x520 Dual Port 10GbE SFP+ Adapter for IBM System x	7158	AC1 MC1	A2EC
IBM Blank USB Memory Key for VMware ESXi Downloads	7158	AC1 MC1	A2G0
Intel Ethernet Adapter Powerville - 4 port upgrade	7158	AC1 MC1	A2GT
Configuration ID 01	7158	AC1 MC1	A2HP
Configuration ID 02	7158	AC1 MC1	A2HQ
Configuration ID 03	7158	AC1 MC1	A2HR
Configuration ID 04	7158	AC1 MC1	A2HS
Configuration ID 05	7158	AC1 MC1	A2HT
Configuration ID 06	7158	AC1 MC1	A2HU
Configuration ID 07	7158	AC1 MC1	A2HV
Configuration ID 08	7158	AC1 MC1	A2HW
Configuration ID 09	7158	AC1 MC1	A2HX
Configuration ID 10	7158	AC1 MC1	A2HY
Configuration ID 11	7158	AC1 MC1	A2HZ
Configuration ID 12	7158	AC1 MC1	A2J0
Configuration ID 13	7158	AC1 MC1	A2J1
Configuration ID 14	7158	AC1 MC1	A2J2
Configuration ID 15	7158	AC1 MC1	A2J3
Configuration ID 16	7158	AC1 MC1	A2J4
Configuration ID 17	7158	AC1 MC1	A2J5
Configuration ID 18	7158	AC1 MC1	A2J6
Configuration ID 19	7158	AC1 MC1	A2J7
Configuration ID 20	7158	AC1 MC1	A2J8
Configuration ID 21	7158	AC1 MC1	A2J9
Configuration ID 22	7158	AC1 MC1	A2JA
Configuration ID 23	7158	AC1 MC1	A2JB
Configuration ID 24	7158	AC1 MC1	A2JC
Configuration ID 25	7158	AC1 MC1	A2JD
Configuration ID 26	7158	AC1 MC1	A2JE
Configuration ID 27	7158	AC1 MC1	A2JF
Configuration ID 28	7158	AC1 MC1	A2JG
Configuration ID 29	7158	AC1 MC1	A2JH
Configuration ID 30	7158	AC1 MC1	A2JJ
Configuration ID 31	7158	AC1	A2JK

		MC1	
Configuration ID 32	7158	AC1	A2JL
		MC1	
Configuration ID 33	7158	AC1	A2JM
		MC1	
Configuration ID 34	7158	AC1	A2JN
		MC1	
Configuration ID 35	7158	AC1	A2JP
		MC1	
Configuration ID 36	7158	AC1	A2JQ
		MC1	
Configuration ID 37	7158	AC1	A2JR
		MC1	
Configuration ID 38	7158	AC1	A2JS
		MC1	
Configuration ID 39	7158	AC1	A2JT
		MC1	
Configuration ID 40	7158	AC1	A2JU
		MC1	
Configuration ID 41	7158	AC1	A2JV
		MC1	
Configuration ID 42	7158	AC1	A2JW
		MC1	
Controller 01	7158	AC1	A2JX
		MC1	
Controller 02	7158	AC1	A2JY
		MC1	
Controller 03	7158	AC1	A2JZ
		MC1	
Controller 04	7158	AC1	A2K0
		MC1	
Controller 05	7158	AC1	A2K1
		MC1	
Primary Array - RAID 0	7158	AC1	A2K6
		MC1	
Primary Array - RAID 1	7158	AC1	A2K7
		MC1	
Primary Array - RAID 1E	7158	AC1	A2K8
		MC1	
Primary Array - RAID 5	7158	AC1	A2K9
		MC1	
Primary Array - RAID 6	7158	AC1	A2KA
		MC1	
Primary Array - RAID 10	7158	AC1	A2KB
		MC1	
Secondary Array - RAID 0	7158	AC1	A2KF
		MC1	
Secondary Array - RAID 1	7158	AC1	A2KG
		MC1	
Secondary Array - RAID 5	7158	AC1	A2KJ
		MC1	
Secondary Array - RAID 6	7158	AC1	A2KK
		MC1	
Secondary Array - RAID 10	7158	AC1	A2KL
		MC1	
x3630 M4 Shipping Bracket	7158	AC1	A2M3
		MC1	
Mellanox ConnectX-2 Dual-port QSFP QDR IB Adapter for IBM System x	7158	AC1	A2MY
		MC1	
IBM 3TB 7.2K 6Gbps NL SAS 3.5" G2HS HDD	7158	AC1	A2R2
		MC1	
Emulex Dual Port 10GbE SFP+ VFA III for IBM System x	7158	AC1	A2U1
		MC1	
Emulex VFA III FCoE/iSCSI License for IBM System x (FoD)	7158	AC1	A2U2
		MC1	
IBM System x Advanced Lightpath Kit	7158	AC1	A2U6
		MC1	
Emulex Dual Port 10GbE SFP+ Integrated VFA III for IBM System x	7158	AC1	A2UN
		MC1	
Broadcom NetXtreme I Quad Port GbE Adapter for IBM			

System x	7158	AC1 MC1	A2V3
Broadcom NetXtreme I Dual Port GbE Adapter for IBM System x	7158	AC1 MC1	A2V4
8-pack SATA Enabler for IBM System x	7158	AC1 MC1	A2V7
ServerRAID C105 for IBM System x	7158	AC1 MC1	A2VA
IBM USB Memory Key for VMware ESXi 5.0	7158	AC1 MC1	A2VC
Broadcom NetXtreme I Quad Port GbE Adapter - 2U Bracket	7158	AC1 MC1	A2VX
Broadcom NetXtreme I Dual Port GbE Adapter - 2U Bracket	7158	AC1 MC1	A2VY
2U bracket for Emulex 16Gb FC Single-port HBA for System x	7158	AC1 MC1	A2W1
2U bracket for Emulex 16Gb FC Dual-port HBA for System x	7158	AC1 MC1	A2W2
Emulex 16Gb FC Single-port HBA for IBM System x	7158	AC1 MC1	A2W5
Emulex 16Gb FC Dual-port HBA for IBM System x	7158	AC1 MC1	A2W6
No Power Cord Validation	7158	AC1 MC1	A2X0
2U Bracket for Brocade 16Gb FC Single-port HBA for IBM System x	7158	AC1 MC1	A2XS
2U Bracket for Brocade 16Gb FC Dual-port HBA for IBM System x	7158	AC1 MC1	A2XT
Brocade 16Gb FC Single-port HBA for IBM System x	7158	AC1 MC1	A2XU
Brocade 16Gb FC Dual-port HBA for IBM System x	7158	AC1 MC1	A2XV
ServerRAID M5110 SAS/SATA Controller for IBM System x	7158	AC1 MC1	A347
Intel Xeon Processor E5-1410 4C 2.8GHz 10MB Cache 1333MHz 80W	7158	AC1 MC1	A34F

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

Description	MT	Model	Feature
Addl Intel Xeon Processor E5-2470 8C 2.3GHz 20MB Cache 1600MHz 95W	3331	HC1	A1YU
Addl Intel Xeon Processor E5-2450 8C 2.1GHz 20MB Cache 1600MHz 95W	3331	HC1	A1YW
Addl Intel Xeon Processor E5-2440 6C 2.4GHz 15MB Cache 1333MHz 95W	3331	HC1	A1YX
Addl Intel Xeon Processor E5-2430 6C 2.2GHz 15MB Cache 1333MHz 95W	3331	HC1	A1YY
Addl Intel Xeon Processor E5-2420 6C 1.9GHz 15MB Cache 1333MHz 95W	3331	HC1	A1Z0
Addl Intel Xeon Processor E5-2407 4C 2.2GHz 10MB Cache 1066MHz 80W	3331	HC1	A1Z1
Addl Intel Xeon Processor E5-2403 4C 1.8GHz 10MB Cache 1066MHz 80W	3331	HC1	A1Z2
Addl Intel Xeon Processor E5-2450L 8C 1.8GHz 20MB Cache 1600MHz 70W	3331	HC1	A1Z3
Addl Intel Xeon Processor E5-2430L 6C 2.0GHz 15MB Cache 1333MHz 60W	3331	HC1	A1Z4
PCIe Riser Card 2 (1 x8 LP for Slotless RAID)	3331	HC1	A1ZD
PCIe Riser Card 2 (2 x8 LP Slots + 1 x4 LP for Slotless RAID)	3331	HC1	A1ZF
3.5" Hot Swap Cage Assembly, Rear, 2 x 3.5"	3331	HC1	A1Z9
x3630 M4 ODD Cage assembly	3331	HC1	A1ZL

Riser Kit for Slot 1	3331	HC1	A1ZG
Riser Kit for Slot 2 with Slotless RAID	3331	HC1	A1ZH
USB Tape Drive Cage assembling kit	3331	HC1	A1ZM
8-pack SATA Enabler for IBM System x	3331	HC1	A2V7

Single Entity Offerings (SEOs)

Description	SEO number
IBM System x3630 M4	7158A2U
	7158A4U
	7158B2U
	7158B4U
	7158C2U
	7158C4U
	7158C6U
	7158D2U
	7158F2U
	7158F4U
	7158G2U
	7158H2U
	7158J2U

Express models:

Description	SEO number
IBM System x3630 M4	7158EAU
	7158EBU
	7158ECU

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

HIPO feature number	Description
A2UH	7158-AC1 Routing Code
A2UJ	7158-MC1 Routing Code

Options:

SEO number	Description
90Y4349	8-pack SATA Enabler for IBM System x
90Y6381	Riser Kit for Slot 1
90Y6383	Riser Kit for Slot 2 with Slotless RAID
90Y6370	USB Tape Drive Cage assembling kit
90Y6356	Intel Xeon Processor E5-2470 8C 2.3GHz 20MB Cache 1600MHz 95W
90Y6361	Intel Xeon Processor E5-2450 8C 2.1GHz 20MB Cache 1600MHz 95W
90Y6362	Intel Xeon Processor E5-2440 6C 2.4GHz 15MB Cache 1333MHz 95W
90Y6363	Intel Xeon Processor E5-2430 6C 2.2GHz 15MB Cache 1333MHz 95W
90Y6364	Intel Xeon Processor E5-2420 6C 1.9GHz 15MB Cache 1333MHz 95W
90Y6365	Intel Xeon Processor E5-2407 4C 2.2GHz 10MB Cache 1066MHz 80W
90Y6367	Intel Xeon Processor E5-2403 4C 1.8GHz 10MB Cache 1066MHz 80W
90Y6368	Intel Xeon Processor E5-2450L 8C 1.8GHz 20MB Cache 1600MHz 70W
90Y6384	Intel Xeon Processor E5-2430L 6C 2.0GHz 15MB Cache 1333MHz 60W
00D8603	PCIe Riser Card 2 (1 x8 LP for Slotless RAID)
00D8604	PCIe Riser Card 2 (2 x8 LP Slots + 1 x4 LP for Slotless RAID)
00D9034	3.5" Hot Swap Cage Assembly, Rear, 2 x 3.5"
00D9051	x3630 M4 ODD Cage assembly

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).

Publications

The following items are shipped with the System x3630 M4 server.

- The *System x3630 M4 Installation and User's Guide* and *System x3630 M4 Problem Determination and Services Guide* contain 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 x3630 M4 server. These two publications and the translation versions can be found in the Documentation CD.
- 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 x3630 M4 Installation and User's Guide* and *System x3630 M4 Problem Determination and Service Guide (PDSG)*, in US English and translation versions, are available from the IBM Publications Center

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

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. Payment options for orders are via credit card (in the US) or customer number for 20 countries. A large number of publications are available online in various file formats, and they can all be downloaded by all countries, free of charge.

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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

Note: The model "x" designation is geography-dependent and is spelled out explicitly in the [Product number](#) section.

	7158A2x	7158A4x
Processor	Xeon E5-2403 4C (80w)	Xeon E5-2409 4C (80w)
Internal speed	1.8 GHz	1.8 GHz
External speed	6.4 GTS	6.4 GTS
Number standard	1	1
Maximum	2	2
L3 cache (full-speed)	10 MB	10 MB
Memory	4 GB ECC 1333 MHz RDIMM	4 GB ECC 1333 MHz RDIMM
RDIMMs	1 x 4 GB (2Gb,1Rx4,1.35V)	1 x 4 GB (2Gb,1Rx4,1.35V)
DIMM sockets	12	12
Capacity (3)	192 GB	192 GB
Video	SVGA	SVGA
Memory	16 MB	16 MB
HDD controller	SATA	SATA
Channels	8	8
Connector internal	2	2
HDD (4)		
Total bays	4	8
5.25 slim	1	1
3.5-in tape	0	0
Simple-swap (3.5-in)	4	8
Simple-swap (2.5-in)	0	0
Internal capacity	12 TB	24 TB
Bays available	4	8
5.25 slim	1	1
3.5-in tape	0	0
Hot-swap (3.5-in)	0	0
Hot-swap (2.5-in)	0	0
Total PCI slots (5)	2	2
PCI_E (x8)	0	0
PCI_E (x16)	2	2
System management	Standard	Standard
Ethernet controller	Four 1 Gb (2+2 FoD)	Four 1 Gb (2+2 FoD)

Optical drive (SATA)	Optional	Optional
Power supply	550 W	550 W
Number standard	1	1
Maximum	2	2
Hot-swap	Yes	Yes
Redundant power	Optional	Optional
Auto restart	Yes	Yes
	7158B2x	7158B4x
Processor	Xeon E5-2407 4C (80w)	Xeon E5-2407 4C (80w)
Internal speed	2.2 GHz	2.2 GHz
External speed	6.4 GTS	6.4 GTS
Number standard	1	1
Maximum	2	2
L3 cache (full-speed)	10 MB	10 MB
Memory	4 GB ECC 1066 MHz RDIMM	4 GB ECC 1066 MHz RDIMM
RDIMMs	1 x 4 GB (2Gb,1Rx4,1.35V)	1 x 4 GB (2Gb,1Rx4,1.35V)
DIMM sockets	12	12
Capacity (3)	192 GB	192 GB
Video	SVGA	SVGA
Memory	16 MB	16 MB
HDD controller	SAS/SATA	SAS/SATA
Channels	8	8
Connector internal	2	2
HDD (4)		
Total bays	8	12
5.25 slim	1	0
3.5-in tape	0	0
Hot-swap (3.5-in)	8	12
Hot-swap (2.5-in)	0	0
Internal capacity	24 TB	36 TB
Bays available	8	12
5.25 slim	1	0
3.5-in tape	0	0
Hot-swap (3.5-in)	8	12
Hot-swap (2.5-in)	0	0
Total PCI slots (5)	2	5
PCI_E (x8)	2 (standard)	4 (standard)
PCI_E (x4)	0 (standard)	1 (slotless)
System management	Standard	Standard
Ethernet controller	Four 1 Gb (2+2 FoD)	Four 1 Gb (2+2 FoD)
Optical drive (SATA)	Optional (NL SATA)	None
Power supply	550 W	750 W
Number standard	1	1
Maximum	2	2
Hot-swap	Yes	Yes
Redundant power	Optional	Optional
Auto restart	Yes	Yes
	7158C2x	7158C4x
Processor	Xeon E5-2420 6C (95w)	Xeon E5-2420 6C (95w)
Internal speed	1.9 GHz	1.9 GHz
External speed	7.2 GTS	7.2 GTS
Number standard	1	1
Maximum	2	2
L3 cache (full-speed)	15 MB	15 MB
Memory	4 GB ECC 1333 MHz RDIMM	8 GB ECC 1333 MHz RDIMM
RDIMMs	1 x 4 GB (2Gb,1Rx4,1.35V)	1 x 8 GB (2Gb,2Rx4,1.35V)
DIMM sockets	12	12
Capacity (3)	192 GB	192 GB
Video	SVGA	SVGA
Memory	16 MB	16 MB
HDD controller	SATA	SATA
Channels	8	8
Connector internal	2	2
HDD (4)		
Total bays	8	8
5.25 slim	1	1
3.5-in tape	0	0
Hot-swap (3.5-in)	8	8

Hot-swap (2.5-in)	0	0
Internal capacity	24 TB	24 TB
Bays available	8	8
5.25 slim	0	0
3.5-in tape	0	0
Hot-swap (3.5-in)	8	8
Hot-swap (2.5-in)	0	0
Total PCI slots (5)	5	5
PCI_E (x8)	4 (standard)	4 (standard)
PCI_E (x4)	1 (slotless)	1 (slotless)
System management	Standard	Standard
Ethernet controller	Four 1 Gb (2+2 FoD)	Four 1 Gb (2+2 FoD)
Optical drive (SATA)	Optional	Multiburner
Power supply	550 W	550 W
Number standard	1	1
Maximum	2	2
Hot-swap	Yes	Yes
Redundant power	Optional	Optional
Auto restart	Yes	Yes

7158C6x

7158D2x

Processor	Xeon E5-2420 6C (95w)	Xeon E5-2430 6C (95w)
Internal speed	1.9 GHz	2.2 GHz
External speed	7.2 GTS	7.2 GTS
Number standard	1	1
Maximum	2	2
L3 cache (full-speed)	15 MB	15 MB
Memory	8 GB ECC 1333 MHz RDIMM	4 GB ECC 1333 MHz RDIMM
RDIMMs	1 x 8 GB (2Gb, 2Rx4, 1.35V)	1 x 4 GB (2Gb, 1Rx4, 1.35V)
DIMM sockets	12	12
Capacity (3)	192 GB	192 GB
Video	SVGA	SVGA
Memory	16 MB	16 MB
HDD controller	SAS/SATA	SAS/SATA
Channels	8	8
Connector internal	2	2
HDD (4)		
Total bays	12	12
5.25 slim	0	0
3.5-in tape	0	0
Hot-swap (3.5-in)	12	12
Hot-swap (2.5-in)	0	0
Internal capacity	36 TB	36 TB
Bays available	12	12
5.25 slim	0	0
3.5-in tape	0	0
Hot-swap (3.5-in)	12	12
Hot-swap (2.5-in)	0	0
Total PCI slots (5)	5	5
PCI_E (x8)	4 (standard)	4 (standard)
PCI_E (x4)	1 (slotless)	1 (slotless)
System management	Standard	Standard
Ethernet controller	Four 1 Gb (2+2 FoD)	Four 1 Gb (2+2 FoD)
Optical drive (SATA)	None	None
Power supply	750 W	750 W
Number standard	1	1
Maximum	2	2
Hot-swap	Yes	Yes
Redundant power	Optional	Optional
Auto restart	Yes	Yes

7158F2x

7158F4x

Processor	Xeon E5-2440 6C (95w)	Xeon E5-2440 6C (95w)
Internal speed	2.4 GHz	2.4 GHz
External speed	7.2 GTS	7.2 GTS
Number standard	1	1
Maximum	2	2
L3 cache (full-speed)	15 MB	15 MB
Memory	4 GB ECC 1333 MHz RDIMM	4 GB ECC 1333 MHz RDIMM
RDIMMs	1 x 4 GB (2Gb, 1Rx4, 1.5V)	1 x 4 GB (2Gb, 1Rx4, 1.5V)

DIMM sockets	12	12
Capacity (3)	192 GB	192 GB
Video	SVGA	SVGA
Memory	16 MB	16 MB
HDD controller	SAS/SATA	SAS/SATA
Channels	8	8
Connector internal	2	2
HDD (4)		
Total bays	12	8
5.25 slim	0	1
3.5-in tape	0	0
Hot-swap (3.5-in)	12	8
Hot-swap (2.5-in)	0	0
Internal capacity	36 TB	24 TB
Bays available	12	8
5.25 slim	0	1
3.5-in tape	0	0
Hot-swap (3.5-in)	12	8
Hot-swap (2.5-in)	0	0
Total PCI slots (5)	5	5
PCI_E (x8)	4 (standard)	4 (standard)
PCI_E (x4)	1 (slotless)	1 (slotless)
System management	Standard	Standard
Ethernet controller	Four 1 Gb (2+2 FoD)	Four 1 Gb (2+2 FoD)
Optical drive (SATA)	None	Optional
Power supply	750 w	550 w
Number standard	1	1
Maximum	2	2
Hot-swap	Yes	Yes
Redundant power	Optional	Optional
Auto restart	Yes	Yes

7158G2x

7158H2x

Processor	Xeon E5-2450 8C (95w)	Xeon E5-2470 8C (95w)
Internal speed	2.1 GHz	2.3 GHz
External speed	8.0 GTS	8.0 GTS
Number standard	1	1
Maximum	2	2
L3 cache (full-speed)	20 MB	20 MB
Memory	4 GB ECC 1600 MHz RDIMM	8 GB ECC 1600 MHz RDIMM
RDIMMs	1 x 4 GB (2Gb,1Rx4,1.5V)	1 x 8 GB (2Gb,2Rx4,1.5V)
DIMM sockets	12	12
Capacity (3)	192 GB	192 GB
Video	SVGA	SVGA
Memory	16 MB	16 MB
HDD controller	SAS/SATA	SAS/SATA
Channels	8	8
Connector internal	2	2
HDD (4)		
Total bays	8	12
5.25 slim	1	0
3.5-in tape	0	0
Hot-swap (3.5-in)	8	12
Hot-swap (2.5-in)	0	0
Internal capacity	24 TB	36 TB
Bays available	8	12
5.25 slim	0	0
3.5-in tape	0	0
Hot-swap (3.5-in)	8	12
Hot-swap (2.5-in)	0	0
Total PCI slots (5)	5	5
PCI_E (x8)	4 (standard)	4 (standard)
PCI_E (x4)	1 (slotless)	1 (slotless)
System management	Standard	Standard
Ethernet controller	Four 1 Gb (2+2 FoD)	Four 1 Gb (2+2 FoD)
Optical drive (SATA)	Optional	None
Power supply	550 w	750 w
Number standard	1	1
Maximum	2	2
Hot-swap	Yes	Yes
Redundant power	Optional	Optional
Auto restart	Yes	Yes

7158J2x

Processor	Xeon E5-2450L 8C (70w)
Internal speed	1.8 GHz
External speed	8.0 GTS
Number standard	1
Maximum	2
L3 cache (full-speed)	20 MB
Memory	4 GB ECC 1333 MHz RDIMM
RDIMMs	1 x 4 GB (2Gb,1Rx4,1.35V)
DIMM sockets	12
Capacity (3)	192 GB
Video	SVGA
Memory	16 MB
HDD controller	SAS/SATA
Channels	8
Connector internal	2
HDD (4)	
Total bays	12
5.25 slim	0
3.5-in tape	0
Hot-swap (3.5-in)	12
Hot-swap (2.5-in)	0
Internal capacity	36 TB
Bays available	12
5.25 slim	0
3.5-in tape	0
Hot-swap (3.5-in)	12
Hot-swap (2.5-in)	0
Total PCI slots (5)	5
PCI_E (x8)	4 (standard)
PCI_E (x4)	1 (slotless)
System management	Standard
Ethernet controller	Four 1 Gb (2+2 FoD)
Optical drive (SATA)	None
Power supply	750 W
Number standard	1
Maximum	2
Hot-swap	Yes
Redundant power	Optional
Auto restart	Yes

System x3630 M4 Express models

7158EAU

7158EBU

Processor	Xeon E5-2407 4C (80w)	Xeon E5-2420 6C (95w)
Internal speed	2.2 GHz	1.9 GHz
External speed	6.4 GTS	7.2 GTS
Number standard	1	1
Maximum	2	2
L3 cache (full-speed)	10 MB	15 MB
Memory	8 GB ECC 1066 MHz RDIMM	8 GB ECC 1333 MHz RDIMM
RDIMMs	1 x 8 GB (2Gb,2Rx4,1.35V)	1 x 8 GB (2Gb,2Rx4,1.35V)
DIMM sockets	12	12
Capacity (3)	192 GB	192 GB
Video	SVGA	SVGA
Memory	16 MB	16 MB
HDD controller	SAS/SATA	SAS/SATA
Channels	8	8
Connector internal	2	2
HDD (4)		
Total bays	8	8
5.25 slim	1	1
3.5-in tape	0	0
Hot-swap (3.5-in)	8	8
Hot-swap (2.5-in)	0	0
Internal capacity	24 TB	24 TB
Bays available	8	8
5.25 slim	1	1

3.5-in tape	0	0
Hot-swap (3.5-in)	8	8
Hot-swap (2.5-in)	0	0
Total PCI slots (5)	5	5
PCI_E (x8)	4 (standard)	4 (standard)
PCI_E (x16)	1 (slotless)	1 (slotless)
System management	Standard	Standard
Ethernet controller	Four 1 Gb	Four 1 Gb
Optical drive (SATA)	Multiburner	Multiburner
Power supply	550 W	550 W
Number standard	1	1
Maximum	2	2
Hot-swap	Yes	Yes
Redundant power	Optional	Optional
Auto restart	Yes	Yes

System x3630 M4 Express models:

7158ECU	
Processor	Xeon E5-2440 6C (95w)
Internal speed	2.4 GHz
External speed	7.2 GTS
Number standard	1
Maximum	2
L3 cache (full-speed)	15 MB
Memory	8 GB ECC 1333 MHZ RDIMM
RDIMMs	1 x 8 GB (2Gb,2Rx4,1.35V)
DIMM sockets	12
Capacity (3)	192 GB
Video	SVGA
Memory	16 MB
HDD controller	SAS/SATA
Channels	8
Connector internal	2
HDD (4)	
Total bays	8
5.25 slim	1
3.5-in tape	0
Hot-swap (3.5-in)	8
Hot-swap (2.5-in)	0
Internal capacity	24 TB
Bays available	8
5.25 slim	1
3.5-in tape	0
Hot-swap (3.5-in)	8
Hot-swap (2.5-in)	0
Total PCI slots (5)	5
PCI_E (x8)	4 (standard)
PCI_E (x16)	1 (slotless)
System management	Standard
Ethernet controller	Four 1 Gb
Optical drive (SATA)	Multiburner
Power supply	550 W
Number standard	1
Maximum	2
Hot-swap	Yes
Redundant power	Optional
Auto restart	Yes

³Maximum of 196 GB by using twelve 16 GB optional DIMMs.

⁴The standard system can hold eight 3.5-inch or twelve 3.5-inch HS HDDs. Maximum capacities are based on installation of eight 3 TB SAS HDDs or by fourteen 3 TB 3.5-inch SATA HDDs.

⁵PCIe is the standard feature for PCI or you may replace it with the PCI Riser Card. Some PCIe slots can be enabled by a second CPU.

Note: For the latest information on supported options, refer to the Sales Manual or visit

Multi-Burner Plus Drive

- Specifications
 - DVD-ROM (3.3x-8x CAV, 4.7 GB DVD-ROM read): 4.58 - 11.08 Mbps
 - DVD-ROM (3.3x-8x CAV, 8.5 GB Dual-layer read): 4.58 - 11.08 Mbps
 - DVD-R/+R (3.3x-8X CAV, 4.7 GB DVD-R/+R read): 4.58 - 11.08 Mbps
 - DVD-R/+R (3.3x-8X CAV, 8.5 GB DVD-R/+R read): 4.58 - 11.08 Mbps
 - DVD-RW/+RW (3.3x-8X CAV, 4.7 GB DVD-RW/+RW read): 4.58 - 11.08 Mbps
 - DVD-RAM (2x-5x PCAV, 4.7 GB DVD-RAM read): 2.77 - 6.925Mbps
 - CD-R/RW/ROM (8-24x CAV, read): 1.2 - 3.6 Mbps
 - DVD-R/+R (3.3x -8X CAV, 4.7 GB DVD-R/+R write): 4.58 - 11.08 Mbps
 - DVD-R/+R (3.3x-8X CLV, 8.5 GB DVD-R/+R Dual-layer write): 4.58 - 11.08 Mbps
 - DVD-RW (2x-6X CLV, 4.7 GB DVD-RW write): 2.77 - 8.31 Mbps
 - DVD+RW (2x - 8X ZCLV, 4.7 GB DVD+RW write): 2.77Mbps - 11.08Mbps
 - DVD-RAM (2x-5x PCAV, 4.7 GB DVD-RAM write): 2.77 - 6.925 Mbps
 - CD-RW (8-24x ZCLV, write): 1.2 - 3.6 Mbps
- Max burst data transfer rate - Ultra DMA Mode 4: 66.6 Mbps
- Average access times:
 - DVD-ROM including latency and error correction: 145 ms
 - DVD-RAM including latency and error correction: 175 ms
 - CD-ROM including latency and error correction: 125 ms

Video subsystem

- SVGA compatible video controller (Matrox G200eR2).
- Integrated on Integrated Management Module (iMMv2).
- Integrated on planar and connected to the PCI bus.
- DDR3 528 or 504 MHz SDRAM video memory controller.
- Video memory is not expandable.
- One DVI (Digital Video Interface) is not used.
- Avocent Digital Video Compression (with IBM Integrated Management Module Advanced Upgrade option).

Supported video modes

width	Height	Refresh	bpp
640	400	60, 72, 75, 85	8, 16, 24
800	600	60, 72, 75, 85	8, 16, 24
1024	768	60, 70, 75, 85	8, 16, 24
1280	1024	60, 75, 85	8, 16, 24
1440	900	60, 60RB	8, 16, 24
1600	1200	60, 75	8, 16, 24
1680	1050	60, 60RB	8, 16, 24

The maximum resolution of the video controller is 1600 x 1200⁶at 75.

⁶The maximum screen resolution is not supported for all Bits per Pixel (color depth) and refresh rates. The maximum Bits per Pixel (color depth) is not supported for all resolutions and refresh rates.

Dimensions

2U Rack Drawer:

- Width: 447 mm (17.6 in)
- Depth: 748.8 mm (29.5 in)
- Height: 86.5 mm (3.4 in)

Rack:

- Weight (minimum configuration): 16.4 kg (36.2 lb)
- Weight (maximum configuration): 28.2 kg (62.2 lb)

Electrical

Models with 550 W power supplies:

- 100 to 127 (nominal) V ac; 50 Hz or 60 Hz; 6.5 A
- 200 to 240 (nominal) V ac; 50 Hz or 60 Hz; 3.3 A
- Input kilovolt-amperes (kVA) (approximately):
 - Minimum configuration: 0.12 kVA
 - Maximum configuration: 0.66 kVA

Models with 750 W power supplies:

- 100 to 127 (nominal) V ac; 50 Hz or 60 Hz; 8.9 A
- 200 to 240 (nominal) V ac; 50 Hz or 60 Hz; 4.5 A
 - Minimum configuration: 0.14 kVA
 - Maximum configuration: 0.90 kVA

Btu output:

- Minimum configuration: 406.03 Btu/hr (AC 119 watts)
- Maximum configuration: 2900.2 Btu/hr (AC 850 watts)

Noise level:

- Noise level (horizontal position): 6.6 bels (operating)
- Noise level (horizontal position): 6.6 bels (idle)

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

System x3630 M4 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:

- Multiprocessor Specification (MPS) 1.4
- Peripheral Component Interconnect (PCI) specification 2.3
- Hardware-enabled to meet the International Organization for Standardization (ISO) 9241, Part 3

Equipment agency approvals and safety

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

- Argentina IEC60950-1

Operating environment

Air temperature:

- Server on: 5°C to 40°C (41°F to 104°F); altitude: 0 to 915 m (3000 ft)
- Server on: 5°C to 32°C (41°F to 89.6°F); altitude: 915 m (3000 ft) to 2134 m (7000 ft)
- Server on: 5°C to 28°C (41°F to 82.4°F); altitude: 2134 m (7000 ft) to 3050 m (10000 ft)
- Server off: 5°C to 45°C (41.0°F to 113°F)
- Shipping: -40°C to 60°C (-40°F to 140°F)

Humidity:

- Server on: 8% to 85%, maximum dew point 24°C, maximum rate of change 5°C/hr
- Server off: 8% to 80%, maximum dew point 27°C
- Shipping: 5% to 100%

Design to ASHRAE Class A3, ambient of 35°C to 40°C, with relaxed support

- Support cloud like workload with no performance degradation acceptable (Turbo-Off).
- Under no circumstance, can any combination of worst case workload and configuration result in system shutdown or design exposure at 40°C.

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 x3630 M4.

Operating systems

- Linux
 - Red Hat Enterprise Linux 6 - 32 bit

- Red Hat Enterprise Linux 6 - 64 bit (including KVM)
- Red Hat Enterprise Linux 5 Server x64 Edition
- Red Hat Enterprise Linux 5 Server with Xen x64 Edition
- SUSE Linux Enterprise Server 10 for AMD64/EM64T
- SUSE Linux Enterprise Server 11 for x86
- SUSE Linux Enterprise Server 11 for AMD64/EM64T
- SUSE Linux Enterprise Server 11 with Xen for AMD64/EM64T
- VMware
 - VMware ESX 4.1
 - VMware ESXi 4.1
 - VMware vSphere 5

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 x3630 M4 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 x3630 M4 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

- SolidState Memory cells have an intrinsic, finite number of write cycles that each cell can incur. As a result each solid state device has a maximum amount of write cycles it can be subjected to, documented as TBW (Total Bytes Written). IBM is not responsible for replacement of hardware that has reached the maximum guaranteed number of write cycles. This limit may be revealed as the device failing to respond to system-generated commands or becoming incapable of being written to.
- The System x3630 M4 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 x3630 M4 servers can address a maximum of 192 GB of system memory. All supported system memory is addressable through direct memory access. The System x3630 M4 server supports 2 GB, 4 GB, 8 GB, and 16 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.
- The IBM x3630 M4 contains built-in Software RAID, ServeRAID C105. It supports SATA drives and either a RAID 0 or RAID 1 array must be created. VMware does not support ServeRAID C105 and there is no native driver support for Linux distributions. The ServeRAID H1110 Controller for IBM System X, Option Part

Number 81Y4492, is a cost-optimized hardware RAID upgrade which supports SAS or SATA drives and is supported natively by all operating systems supported on x3630 M4.

- To ensure proper air flow for cooling, the System x3630 M4 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 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 x3630 M4 and related options

The System x3630 M4 server and related options are designated as customer setup. Customer setup instructions are shipped with system and options.

Configuration information

Bay configuration

System x3630 M3 hot-swap models contain a DASD backplane supporting up twelve plus two hot-swap, 3.5-inch SATA/SAS HDD bays.

Rack installations

System x3630 M4 2U rack-drawer models are designed to be installed in a 19-inch rack cabinet designed for 748.4 mm (29.48-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 x3630 M4 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 635 - 788 mm (25 - 31 in).
- The thickness of the mounting flanges must be 1.9 - 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 x3630 M4 server is an Intel Xeon processor system that supports internal processing speeds of up to 2.80 GHz and processing operations to memory up to 1600 MHz. It contains an integrated, 12 MB shared among cores L3 cache. This dual-socket system supports a second processor with the same QPI link speed, Integrated Memory Controller frequency, core frequency, power segment, internal cache size, and type of processor as the first.

Power considerations

The System x3630 M4 server includes redundant 550-watt and 750-watt high efficiency and 80-PLUS certified power supplies. These two power supplies are capable of providing sufficient power to run the server fully configured with supported devices.

Supported power options

The following power options are supported:

- 550-watt high efficiency redundant power supply
- 750-watt high efficiency redundant power supply

Cable orders

The dual 10/100/1000 Mbps, full-duplex, Ethernet PCI-E controllers, standard with the System x3630 M4 server, are connected directly to independent RJ-45 connectors. The RJ-45 connectors provide 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 x3630 M4 server requires about 30 minutes for installation. Installation includes unpacking, setting up, and powering on the system. Additional time is required to install an operating system, additional adapters, or features.

Packaging

One box

- System unit carton: System unit
- Country kit
 - System x3630 M4 Installation Guide
 - Rack Installation Guide
 - ServeRAID Support Package

The System x3630 M4 server is shipped in a single package. The country kit is contained inside 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 controls 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.

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
Research Triangle Park, NC 27709
Attn: Dept JDJA/B203

Warranty period

- System - Three years
- Optional features - One year

Note: For configurations that support the RAID battery, the RAID battery will be warranted for 1 year effective on its "Date of Installation." All other product warranty terms for the machine remain unchanged.

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

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

- Tape filler
- EMC blank filler
- EIA set kit
- Safety cover
- Airflow baffle
- Gen-III slide kit
- Gen-III 1U CMA kit
- DVD blank filler
- Blank fan filler
- MISC part kit
- Battery holder
- PSU filler
- CMA Assembly Kit
- CMA, 2U/4U kit
- Remote battery tray
- Gen-III 2U CMA Kit
- Slide kit
- Hard Drive cage

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 website. Certain machines contain remote support capabilities for direct problem reporting, remote problem determination, and resolution with IBM. You must follow the problem determination and resolution procedures that IBM specifies. Following problem determination, if IBM determines On-site Service is required, scheduling of service will depend upon the time of your call, machine technology and redundancy, and availability of parts. Service levels are response-time objectives and are not guaranteed. The specified level of warranty service may not be available in all worldwide locations. Additional charges may apply outside normal IBM 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 designated for your machine.

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 or features have been designated as Tier 2 CRUs:

- System Planar Board
- Processors (CPUs)/Heatsink

Other parts, including the following been designated as Tier 1 CRUs:

- CMOS batteries
- Hard disk drives
- System fan
- Powersupply
- Memory DIMM
- Optical drive
- PCI adapter
- Powercord
- Service label
- System label
- Hypervisor USB key
- PCI riser
- RAID card
- Tape drive
- Ethernet daughter card
- Backplanes/backplate

On-site Service

At the discretion of IBM, you will receive CRU service or IBM or your reseller will repair the failing machine at your location and verify its operation. If required, On-site Repair can be provided for Tier 2 CRU parts. Two or more persons are required to remove this machine from the rack to a flat surface before IBM can provide on-site service. If you require IBM to remove the machine from the rack, you can purchase a warranty upgrade which will allow IBM to send two service technicians onsite to remove the machine from the rack for you. On-site Repair is provided, nine hours per day, Monday through Friday excluding holidays, NBD response. 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

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

For more information on IWS, refer to Services Announcement [601-034](#), dated September 25, 2001 .

Licensing

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

Maintenance services

ServicePac , ServiceSuite , ServiceElect, and ServiceElite

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

Warranty service upgrade

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

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

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

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

Maintenance service

If required, IBM provides repair or exchange service, depending on the type of maintenance service specified below for the machine. IBM will attempt to resolve your problem over the telephone or electronically by access to an IBM website. Certain machines contain remote support capabilities for direct problem reporting, remote problem determination, and resolution with IBM . You must follow the problem determination and resolution procedures that IBM specifies. Following problem determination, if IBM determines On-site Service is required, scheduling of service will depend upon the time of your call, machine technology and redundancy, and availability of parts. Service levels are response-time objectives and are not guaranteed.

CRU Service

If your problem can be resolved with a CRU (for example, keyboard, mouse, speaker, memory, or hard disk drive), IBM will ship the CRU to you for you to install.

CRU information and replacement instructions are shipped with your machine and are available from IBM at any time on your request.

IBM specifies in the materials shipped with a replacement CRU whether a defective CRU must be returned to IBM . When return is required, return instructions and a container are shipped with the replacement CRU, and you may be charged for the replacement CRU if IBM does not receive the defective CRU within 15 days of your receipt of the replacement.

On-site Service

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

Maintenance service (ICA)

Maintenance services are available for ICA legacy contracts.

Alternative service (warranty service upgrades)

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

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

A CRU will be provided as part of the machine's standard warranty CRU Service except that you may install a Tier 1 CRU yourself or request IBM to install it, at no additional charge, under the type of warranty service designated for your machine.

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

Maintenance service

If required, IBM provides repair or exchange service, depending on the type of maintenance service specified below for the machine. IBM will attempt to resolve your problem over the telephone or electronically by access to an IBM website. Certain machines contain remote support capabilities for direct problem reporting, remote problem determination, and resolution with IBM . You must follow the problem determination and resolution procedures that IBM specifies. Following problem determination, if IBM determines On-site Service is required, scheduling of service will depend upon the time of your call, machine technology and redundancy, and availability of parts. Service levels are response-time objectives and are not guaranteed.

CRU Service

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

IBM specifies in the materials shipped with a replacement CRU whether a defective CRU must be returned to IBM. When return is required, return instructions and a container are shipped with the replacement CRU, and you may be charged for the replacement CRU if IBM does not receive the defective CRU within 15 days of your receipt of the replacement.

On-site Service

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

Non-IBM parts support

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.

Warranty service upgrades

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

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

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

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

Educational allowance

None

Pricing

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

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

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

Description	Model number	Feature number	Initial/ MES/ Both support	RP CSU MES
Addl Intel Xeon Processor E5-2470 8C 2.3GHz 20MB Cache 1600MHz 95W	HC1	A1YU	MES	
Addl Intel Xeon Processor E5-2450 8C 2.1GHz 20MB Cache 1600MHz 95W	HC1	A1YW	MES	
Addl Intel Xeon Processor E5-2440 6C 2.4GHz 15MB Cache 1333MHz 95W	HC1	A1YX	MES	
Addl Intel Xeon Processor E5-2430 6C 2.2GHz 15MB Cache 1333MHz 95W	HC1	A1YY	MES	
Addl Intel Xeon Processor E5-2420 6C 1.9GHz 15MB Cache 1333MHz 95W	HC1	A1Z0	MES	
Addl Intel Xeon Processor E5-2407 4C 2.2GHz 10MB Cache 1066MHz 80W	HC1	A1Z1	MES	
Addl Intel Xeon Processor E5-2403 4C 1.8GHz 10MB Cache 1066MHz 80W	HC1	A1Z2	MES	
Addl Intel Xeon Processor E5-2450L 8C 1.8GHz 20MB Cache 1600MHz 70W	HC1	A1Z3	MES	
Addl Intel Xeon Processor E5-2430L 6C 2.0GHz 15MB Cache 1333MHz 60W				

	HC1	A1Z4	MES
PCIe Riser Card 2 (1 x8 LP for Slotless RAID)	HC1	A1ZD	MES
PCIe Riser Card 2 (2 x8 LP Slots + 1 x4 LP for Slotless RAID)	HC1	A1ZF	MES
3.5" Hot Swap Cage Assembly, Rear, 2 x 3.5"	HC1	A1Z9	MES
x3630 M4 ODD Cage assembly	HC1	A1ZL	MES
8-pack SATA Enabler for IBM System x	HC1	A2V7	MES
Riser Kit for Slot 1	HC1	A1ZG	MES
Riser Kit for Slot 2 with Slotless RAID	HC1	A1ZH	MES
USB Tape Drive Cage assembling kit	HC1	A1ZM	MES

The following are features already announced for the 7158 machine type:

Description	Model number	Feature number	Initial/ MES/ Both support	RP CSU MES
AC1	AC1			Yes
MC1	MC1			Yes
QLogic 10Gb SFP+ SR Optical Transceiver	AC1	0064	Initial	
	MC1		Initial	
Brocade 10Gb SFP+ SR Optical Transceiver	AC1	0069	Initial	
	MC1		Initial	
UID Asset Tag Label	AC1	0747	Initial	
	MC1		Initial	
NetXtreme II 1000 Express G Ethernet Adapter- PCIe	AC1	1485	Initial	
	MC1		Initial	
Brocade 10Gb CNA for IBM System x	AC1	1637	Initial	
	MC1		Initial	
Emulex 4Gb FC Single-Port PCI-E HBA for IBM System x	AC1	1698	Initial	
	MC1		Initial	
Emulex 4Gb FC Dual-Port PCI-E HBA for IBM System x	AC1	1699	Initial	
	MC1		Initial	
EMEA Long Leadtime Configurations	AC1	1763	Initial	
	MC1		Initial	
Hungary CHW plant 9SH	AC1	1764	Initial	
	MC1		Initial	
Guad CHW plant 9KQ	AC1	1765	Initial	
	MC1		Initial	
ISTC CHW 9K2	AC1	1766	Initial	
	MC1		Initial	
RTP CHW 9NR	AC1	1767	Initial	
	MC1		Initial	
Offload Manufacturing to Guadalajara HVEC	AC1	1768	Initial	
	MC1		Initial	
Offload Manufacturing to RTP HVEC	AC1	1769	Initial	
	MC1		Initial	

Offload Manufacturing to ISTC	AC1	1770	Initial
	MC1		Initial
Routing for AP Foxconn	AC1	1771	Initial
	MC1		Initial
Capacity Scheduling Service	AC1	1772	Initial
	MC1		Initial
Custom SLA Scheduling Service	AC1	1796	Initial
	MC1		Initial
Custom Asset Tagging - Standard	AC1	2200	Initial
	MC1		Initial
Custom Asset Tagging - Enhanced	AC1	2201	Initial
	MC1		Initial
Custom Image Load - Server	AC1	2204	Initial
	MC1		Initial
Custom Media Shipgroup	AC1	2206	Initial
	MC1		Initial
Request for Global Trade Number (UPC or EAN)	AC1	2207	Initial
	MC1		Initial
Custom Software/Firmware Setting - Standard	AC1	2208	Initial
	MC1		Initial
Custom Software/Firmware Setting - Enhanced	AC1	2209	Initial
	MC1		Initial
Custom RAID Configuration	AC1	2212	Initial
	MC1		Initial
Custom Labeling	AC1	2220	Initial
	MC1		Initial
Custom Palletization	AC1	2221	Initial
	MC1		Initial
Request for a new Vendor Logo Hardware	AC1	2247	Initial
	MC1		Initial
Request for an existing IBM Feature	AC1	2248	Initial
	MC1		Initial
Request for an existing Public RPQ	AC1	2249	Initial
	MC1		Initial
RAID Configuration	AC1	2302	Initial
	MC1		Initial
Rack Installation >1U Component	AC1	2306	Initial
	MC1		Initial
Primary Array 12 HDDs	AC1	2400	Initial
	MC1		Initial
Primary Array 13 HDDs	AC1	2401	Initial
	MC1		Initial
Primary Array 14 HDDs	AC1	2402	Initial
	MC1		Initial
Secondary Array 9 HDDs	AC1	2405	Initial
	MC1		Initial
Secondary Array 10 HDDs	AC1	2406	Initial
	MC1		Initial
Secondary Array 11 HDDs	AC1	2407	Initial

	MC1		Initial
Secondary Array 12 HDDs	AC1	2408	Initial
	MC1		Initial
PRO/1000 PF Server Adapter	AC1	2975	Initial
	MC1		Initial
NetXtreme II 1000 Express Dual Port Ethernet Adapter	AC1	2995	Initial
	MC1		Initial
Rack 01	AC1	3101	Initial
	MC1		Initial
Rack 02	AC1	3102	Initial
	MC1		Initial
Rack 03	AC1	3103	Initial
	MC1		Initial
Rack 04	AC1	3104	Initial
	MC1		Initial
Rack 05	AC1	3105	Initial
	MC1		Initial
Rack 06	AC1	3106	Initial
	MC1		Initial
Rack 07	AC1	3107	Initial
	MC1		Initial
Rack 08	AC1	3108	Initial
	MC1		Initial
Rack 09	AC1	3109	Initial
	MC1		Initial
Rack 10	AC1	3110	Initial
	MC1		Initial
Rack 11	AC1	3111	Initial
	MC1		Initial
Rack 12	AC1	3112	Initial
	MC1		Initial
Rack 13	AC1	3113	Initial
	MC1		Initial
Rack 14	AC1	3114	Initial
	MC1		Initial
Rack 15	AC1	3115	Initial
	MC1		Initial
Rack 16	AC1	3116	Initial
	MC1		Initial
Rack 17	AC1	3117	Initial
	MC1		Initial
Rack 18	AC1	3118	Initial
	MC1		Initial
Rack 19	AC1	3119	Initial
	MC1		Initial
Rack 20	AC1	3120	Initial
	MC1		Initial
Rack 21	AC1	3121	Initial
	MC1		Initial

Rack 22	AC1 MC1	3122	Initial Initial
Rack 23	AC1 MC1	3123	Initial Initial
Rack 24	AC1 MC1	3124	Initial Initial
Rack 25	AC1 MC1	3125	Initial Initial
Rack 26	AC1 MC1	3126	Initial Initial
Rack 27	AC1 MC1	3127	Initial Initial
Rack 28	AC1 MC1	3128	Initial Initial
Rack 29	AC1 MC1	3129	Initial Initial
Rack 30	AC1 MC1	3130	Initial Initial
Rack 31	AC1 MC1	3131	Initial Initial
Rack 32	AC1 MC1	3132	Initial Initial
Rack 33	AC1 MC1	3133	Initial Initial
Rack 34	AC1 MC1	3134	Initial Initial
Rack 35	AC1 MC1	3135	Initial Initial
Rack 36	AC1 MC1	3136	Initial Initial
Rack 37	AC1 MC1	3137	Initial Initial
Rack 38	AC1 MC1	3138	Initial Initial
Rack 39	AC1 MC1	3139	Initial Initial
Rack 40	AC1 MC1	3140	Initial Initial
Rack 41	AC1 MC1	3141	Initial Initial
Rack 42	AC1 MC1	3142	Initial Initial
Rack 43	AC1 MC1	3143	Initial Initial
Rack 44	AC1 MC1	3144	Initial Initial
Rack 45	AC1 MC1	3145	Initial Initial
Rack 46	AC1	3146	Initial

	MC1		Initial
Rack 47	AC1 MC1	3147	Initial Initial
Rack 48	AC1 MC1	3148	Initial Initial
Rack 49	AC1 MC1	3149	Initial Initial
Rack 50	AC1 MC1	3150	Initial Initial
Rack 51	AC1 MC1	3151	Initial Initial
Rack 52	AC1 MC1	3152	Initial Initial
Rack 53	AC1 MC1	3153	Initial Initial
Rack 54	AC1 MC1	3154	Initial Initial
Rack 55	AC1 MC1	3155	Initial Initial
Rack 56	AC1 MC1	3156	Initial Initial
Rack 57	AC1 MC1	3157	Initial Initial
Rack 58	AC1 MC1	3158	Initial Initial
Rack 59	AC1 MC1	3159	Initial Initial
Rack 60	AC1 MC1	3160	Initial Initial
Rack 61	AC1 MC1	3161	Initial Initial
Rack 62	AC1 MC1	3162	Initial Initial
Rack 63	AC1 MC1	3163	Initial Initial
Rack 64	AC1 MC1	3164	Initial Initial
Rack location U01	AC1 MC1	3201	Initial Initial
Rack location U02	AC1 MC1	3202	Initial Initial
Rack location U03	AC1 MC1	3203	Initial Initial
Rack location U04	AC1 MC1	3204	Initial Initial
Rack location U05	AC1 MC1	3205	Initial Initial
Rack location U06	AC1 MC1	3206	Initial Initial
Rack location U07			

	AC1 MC1	3207	Initial Initial
Rack location U08			
	AC1 MC1	3208	Initial Initial
Rack location U09			
	AC1 MC1	3209	Initial Initial
Rack location U10			
	AC1 MC1	3210	Initial Initial
Rack location U11			
	AC1 MC1	3211	Initial Initial
Rack location U12			
	AC1 MC1	3212	Initial Initial
Rack location U13			
	AC1 MC1	3213	Initial Initial
Rack location U14			
	AC1 MC1	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	3232	Initial
	MC1		Initial
Rack location U33	AC1	3233	Initial
	MC1		Initial
Rack location U34	AC1	3234	Initial
	MC1		Initial
Rack location U35	AC1	3235	Initial
	MC1		Initial
Rack location U36	AC1	3236	Initial
	MC1		Initial
Rack location U37	AC1	3237	Initial
	MC1		Initial
Rack location U38	AC1	3238	Initial
	MC1		Initial
Rack location U39	AC1	3239	Initial
	MC1		Initial
Rack location U40	AC1	3240	Initial
	MC1		Initial
Rack location U41	AC1	3241	Initial
	MC1		Initial
Rack location U42	AC1	3242	Initial
	MC1		Initial
QLogic 4Gb FC Single-Port PCIe HBA for IBM System x	AC1	3567	Initial
	MC1		Initial
QLogic 4Gb FC Dual-Port PCIe HBA for IBM System x	AC1	3568	Initial
	MC1		Initial
QLogic 8Gb FC Single-port HBA for IBM System x	AC1	3578	Initial
	MC1		Initial
QLogic 8Gb FC Dual-port HBA for IBM System x	AC1	3579	Initial
	MC1		Initial
Emulex 8Gb FC Single-port HBA for IBM System x	AC1	3580	Initial
	MC1		Initial
Emulex 8Gb FC Dual-port HBA for IBM System x	AC1	3581	Initial
	MC1		Initial
Brocade 8Gb FC Single-port HBA for IBM System x	AC1	3589	Initial
	MC1		Initial
Brocade 8Gb FC Dual-port HBA for IBM System x	AC1	3591	Initial
	MC1		Initial
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
IBM 3M SAS Cable	AC1	3707	Initial
	MC1		Initial
IBM 1M SAS Cable	AC1	3708	Initial
	MC1		Initial
IBM USB Conversion Option Pack	AC1	3756	Initial

	MC1		Initial
IBM Single Cable USB Conversion Option (UCO)	AC1	3757	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	3793	Initial
	MC1		Initial
10m Yellow Cat5e Cable	AC1	3794	Initial
	MC1		Initial
25m Yellow Cat5e Cable	AC1	3795	Initial
	MC1		Initial
0.6m Green Cat5e Cable	AC1	3796	Initial
	MC1		Initial
1.5m Green Cat5e Cable	AC1	3797	Initial
	MC1		Initial
3m Green Cat5e Cable	AC1	3798	Initial
	MC1		Initial
10m Green Cat5e Cable	AC1	3799	Initial
	MC1		Initial
25m Green Cat5e Cable	AC1	3800	Initial
	MC1		Initial
0.6m Blue Cat5e Cable	AC1	3801	Initial
	MC1		Initial
1.5m Blue Cat5e Cable	AC1	3802	Initial
	MC1		Initial
3m Blue Cat5e Cable	AC1	3803	Initial
	MC1		Initial
10m Blue Cat5e Cable	AC1	3804	Initial
	MC1		Initial
25m Blue Cat5e Cable	AC1	3805	Initial
	MC1		Initial
IBM 6Gb Performance Optimized HBA	AC1	3876	Initial
	MC1		Initial
Brocade 4Gb FC Single-port HBA for IBM System x	AC1	3885	Initial
	MC1		Initial
Brocade 4Gb FC Dual-port HBA for IBM System x	AC1	3886	Initial
	MC1		Initial
IBM UltraSlim Enhanced SATA DVD-ROM	AC1	4161	Initial
	MC1		Initial
IBM UltraSlim Enhanced SATA Multi-Burner	AC1	4163	Initial
	MC1		Initial
IBM Serial Conversion Option (SCO)	AC1	5340	Initial
	MC1		Initial
IBM Virtual Media Conversion Option Gen2 (VC02)	AC1	5341	Initial
	MC1		Initial
IBM DDS Gen 6 USB Tape Drive	AC1	5395	Initial
	MC1		Initial
NetXtreme II 10 GigE Express Fiber SR Adapter			

	AC1	5451	Initial
	MC1		Initial
IBM RDX 160GB Cartridge			
	AC1	5707	Initial
	MC1		Initial
IBM RDX 320GB Cartridge			
	AC1	5708	Initial
	MC1		Initial
IBM RDX 500GB Cartridge			
	AC1	5709	Initial
	MC1		Initial
IBM RDX Internal USB Dock			
	AC1	5710	Initial
	MC1		Initial
IBM DDS Generation 5 USB Tape Drive			
	AC1	5711	Initial
	MC1		Initial
QLogic 10Gb CNA for IBM System x			
	AC1	5751	Initial
	MC1		Initial
NetXtreme II 1000 Express Quad Port Ethernet Adapter			
	AC1	5766	Initial
	MC1		Initial
Intel Ethernet Dual Port Server Adapter I340-T2 for IBM System x			
	AC1	5767	Initial
	MC1		Initial
Intel Ethernet Quad Port Server Adapter I340-T4 for IBM System x			
	AC1	5768	Initial
	MC1		Initial
SL Optical Filler Bezel			
	AC1	5781	Initial
	MC1		Initial
Select Storage devices - no IBM-configured RAID required			
	AC1	5977	Initial
	MC1		Initial
Select Storage devices - IBM-configured RAID			
	AC1	5978	Initial
	MC1		Initial
IBM 6Gb SAS HBA			
	AC1	5982	Initial
	MC1		Initial
1.5m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable			
	AC1	6201	Initial
	MC1		Initial
2.8m, 10A/100-250V, C13 to IEC 320-C20 Rack Power Cable			
	AC1	6204	Initial
	MC1		Initial
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
Rack power cable - 2.0m, 125-250V, C13 to IEC 320-C14 (WW)			
	AC1	6316	Initial
	MC1		Initial
2.8m, 10A/230V, C13 to CEE7-VII (Europe)			
	AC1	6212	Initial
	MC1		Initial
China warranty for Models MC1, AC1			
	AC1	7599	Initial
	MC1		Initial
Software Application (Not Preinstalled) Specify			
	AC1	A0UF	Initial
	MC1		Initial

4GB (1x4GB, 1Rx4, 1.5V) PC3-12800	CL11	ECC DDR3 1600MHZ LP RDIMM
AC1	A28Z	Initial
MC1		Initial
16GB (1x16GB, 2Rx4, 1.35V) PC3L-10600	CL9	ECC DDR3 1333MHZ LP RDIMM
AC1	A1QT	Initial
MC1		Initial
8GB (1x8GB, 2Rx4, 1.5V) PC3-12800	CL11	ECC DDR3 1600MHZ LP RDIMM
AC1	A292	Initial
MC1		Initial
IBM MAX5 for System x Memory DIMM Filler		
AC1	6437	Initial
MC1		Initial
Primary Array 2 HDDs		
AC1	7008	Initial
MC1		Initial
Primary Array 3 HDDs		
AC1	7009	Initial
MC1		Initial
Primary Array 4 HDDs		
AC1	7010	Initial
MC1		Initial
Primary Array 5 HDDs		
AC1	7011	Initial
MC1		Initial
Primary Array 6 HDDs		
AC1	7012	Initial
MC1		Initial
Primary Array 7 HDDs		
AC1	7013	Initial
MC1		Initial
Primary Array 8 HDDs		
AC1	7014	Initial
MC1		Initial
Secondary Array 2 HDDs		
AC1	7015	Initial
MC1		Initial
Secondary Array 3 HDDs		
AC1	7016	Initial
MC1		Initial
Secondary Array 4 HDDs		
AC1	7017	Initial
MC1		Initial
Secondary Array 5 HDDs		
AC1	7057	Initial
MC1		Initial
Secondary Array 6 HDDs		
AC1	7058	Initial
MC1		Initial
Secondary Array 7 HDDs		
AC1	7059	Initial
MC1		Initial
Secondary Array 8 HDDs		
AC1	7060	Initial
MC1		Initial
2U Bracket for Brocade 4Gb FC Single-port HBA for IBM System x		
AC1	7633	Initial
MC1		Initial
2U Bracket for Brocade 4Gb FC Dual-port HBA for IBM System x		
AC1	7634	Initial
MC1		Initial
Primary Array 9 HDDs		
AC1	7664	Initial
MC1		Initial
Grouped Product		
AC1	7830	Initial
MC1		Initial
Customer Solution Center Services		
AC1	7831	Initial
MC1		Initial
e1350 Special Bid Solution Component		
AC1	7929	Initial

	MC1		Initial
No HDD Selected	AC1	8026	Initial
	MC1		Initial
Consolidate Shipment	AC1	8031	Initial
	MC1		Initial
e1350 Solution Component	AC1	8034	Initial
Compute Node	AC1	8036	Initial
	MC1		Initial
Management Node	AC1	8037	Initial
	MC1		Initial
Storage Node	AC1	8038	Initial
	MC1		Initial
TAA Compliant Order	AC1	8067	Initial
	MC1		Initial
General Racking Solution	AC1	8072	Initial
	MC1		Initial
No SATA HDD Selected	AC1	8080	Initial
	MC1		Initial
No 2.5" SAS HDD Selected	AC1	8081	Initial
	MC1		Initial
No 3.5" SAS HDD Selected	AC1	8082	Initial
	MC1		Initial
No Publications Selected	AC1	8086	Initial
	MC1		Initial
4GB (1x4GB, 2Rx8, 1.35V) PC3L-10600 CL9 ECC DDR3 1333MHZ LP UDIMM	AC1	8648	Initial
	MC1		Initial
8GB (1x8GB, 2Rx4, 1.35V) PC3L-10600 CL9 ECC DDR3 1333MHZ LP RDIMM	AC1	8923	Initial
	MC1		Initial
2GB (1x2GB, 1Rx8, 1.35V) PC3L-10600 CL9 ECC DDR3 1333MHZ LP RDIMM	AC1	8940	Initial
	MC1		Initial
4GB (1x4GB, 1Rx4, 1.35V) PC3L-10600 CL9 ECC DDR3 1333MHZ LP RDIMM	AC1	8941	Initial
	MC1		Initial
4GB (1x4GB, 2Rx8, 1.35V) PC3L-10600 CL9A ECC DDR3 1333MHZ LP RDIMM	AC1	8942	Initial
	MC1		Initial
Integrate in manufacturing	AC1	8971	Initial
	MC1		Initial
Ship Uninstalled (Safety)	AC1	8972	Initial
	MC1		Initial
Hot Spare	AC1	9013	Initial
	MC1		Initial
Enable Memory Mirroring	AC1	9017	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 MC1	9172	Initial Initial
Storage Subsystem ID 04	AC1 MC1	9173	Initial Initial
Storage Subsystem ID 05	AC1 MC1	9174	Initial Initial
Storage Subsystem ID 06	AC1 MC1	9175	Initial Initial
Storage Subsystem ID 07	AC1 MC1	9176	Initial Initial
Storage Subsystem ID 08	AC1 MC1	9177	Initial Initial
Storage Subsystem ID 09	AC1 MC1	9178	Initial Initial
Storage Subsystem ID 10	AC1 MC1	9179	Initial Initial
Storage Subsystem ID 11	AC1 MC1	9180	Initial Initial
Storage Subsystem ID 12	AC1 MC1	9181	Initial Initial
Storage Subsystem ID 13	AC1 MC1	9182	Initial Initial
Storage Subsystem ID 14	AC1 MC1	9183	Initial Initial
Storage Subsystem ID 15	AC1 MC1	9184	Initial Initial
Storage Subsystem ID 16	AC1 MC1	9185	Initial Initial
Storage Subsystem ID 17	AC1 MC1	9186	Initial Initial
Storage Subsystem ID 18	AC1 MC1	9187	Initial Initial
Storage Subsystem ID 19	AC1 MC1	9188	Initial Initial
Storage Subsystem ID 20	AC1 MC1	9189	Initial Initial
Preload Specify	AC1 MC1	9200	Initial Initial
Windows Specify	MC1	9201	Initial
Red Hat Specify	AC1	9202	Initial
SuSE Specify	AC1	9203	Initial
Drop-in-the-Box Specify	AC1 MC1	9205	Initial Initial
No Preload Specify	AC1 MC1	9206	Initial Initial
VMware Specify	AC1 MC1	9207	Initial Initial
Preload by Hardware Feature Specify	AC1	9220	Initial

	MC1		Initial
1 meter internal USB cable	AC1	9266	Initial
	MC1		Initial
2U Bracket for Emulex 10GbE Virtual Fabric Adapter for IBM System x	AC1	9297	Initial
	MC1		Initial
Primary Array 10 HDDs	AC1	9714	Initial
	MC1		Initial
Primary Array 11 HDDs	AC1	9715	Initial
	MC1		Initial
Advanced Grouping	AC1	A102	Initial
	MC1		Initial
NVIDIA Quadro 600	AC1	A13K	Initial
	MC1		Initial
Broadcom NetXtreme II Dual Port 10GbBaseT Adapter for IBM System x	AC1	A18Y	Initial
	MC1		Initial
2U Bracket for Broadcom NetXtreme II Dual Port 10GbBaseT Adapter	AC1	A190	Initial
	MC1		Initial
IBM 3.5" Hot Swap Filler	AC1	A1FD	Initial
	MC1		Initial
IBM 3.5" Simple Swap Filler	AC1	A1FE	Initial
	MC1		Initial
IBM System x 750W High Efficiency Platinum AC Power Supply	AC1	A1H5	Initial
	MC1		Initial
IBM System x 550W High Efficiency Platinum AC Power Supply	AC1	A1H6	Initial
	MC1		Initial
ServerRAID M5100 Series 512MB Cache/RAID 5 Upgrade for IBM System x	AC1	A1J3	Initial
	MC1		Initial
ServerRAID M5100 Series 512MB Flash/RAID 5 Upgrade for IBM System x	AC1	A1J4	Initial
	MC1		Initial
IBM System x Lightpath Kit	AC1	A1LF	Initial
	MC1		Initial
Mellanox ConnectX-2 Dual Port 10GbE Adapter for IBM System x	AC1	A1M4	Initial
	MC1		Initial
IBM Integrated Management Module Advanced Upgrade	AC1	A1ML	Initial
	MC1		Initial
ServerRAID M1115 SAS/SATA Controller for IBM System x	AC1	A1MZ	Initial
	MC1		Initial
2U Bracket for Mellanox ConnectX-2 Dual Port 10GbE Adapter	AC1	A1NQ	Initial
	MC1		Initial
ServerRAID M5120 SAS/SATA Controller for IBM System x	AC1	A1WX	Initial
	MC1		Initial
ServerRAID M5100 Series 1GB Flash/RAID 5 Upgrade for IBM System x			

	AC1	A1WY	Initial
	MC1		Initial
ServerRAID M1100 Series Zero Cache/RAID 5 Upgrade for IBM System x			
	AC1	A1X1	Initial
	MC1		Initial
ServerRAID M5100 Series Zero Cache/RAID 5 Upgrade for IBM System x			
	AC1	A1X2	Initial
	MC1		Initial
ServerRAID M5100 Series RAID 6 Upgrade for IBM System x			
	AC1	A1X3	Initial
	MC1		Initial
ServerRAID H1110 SAS/SATA Controller for IBM System x			
	AC1	A1XL	Initial
	MC1		Initial
Intel Xeon Processor E5-2470 8C 2.3GHz 20MB Cache 1600MHz 95W			
	AC1	A1YG	Initial
	MC1		Initial
Intel Pentium processor 1403 2C 2.6GHz 5MB cache 1066MHz 80W			
	AC1	A1YH	Initial
	MC1		Initial
Intel Xeon Processor E5-2450 8C 2.1GHz 20MB Cache 1600MHz 95W			
	AC1	A1YJ	Initial
	MC1		Initial
Intel Xeon Processor E5-2440 6C 2.4GHz 15MB Cache 1333MHz 95W			
	AC1	A1YK	Initial
	MC1		Initial
Intel Xeon Processor E5-2430 6C 2.2GHz 15MB Cache 1333MHz 95W			
	AC1	A1YL	Initial
	MC1		Initial
Intel Pentium processor 1403 2C 2.6GHz 5MB cache 1066MHz 80W			
	AC1	A1YM	Initial
	MC1		Initial
Intel Xeon Processor E5-2420 6C 1.9GHz 15MB Cache 1333MHz 95W			
	AC1	A1YN	Initial
	MC1		Initial
Intel Xeon Processor E5-2407 4C 2.2GHz 10MB Cache 1066MHz 80W			
	AC1	A1YP	Initial
	MC1		Initial
Intel Xeon Processor E5-2403 4C 1.8GHz 10MB Cache 1066MHz 80W			
	AC1	A1YQ	Initial
	MC1		Initial
Intel Xeon Processor E5-2450L 8C 1.8GHz 20MB Cache 1600MHz 70W			
	AC1	A1YR	Initial
	MC1		Initial
Intel Xeon Processor E5-2430L 6C 2.0GHz 15MB Cache 1333MHz 60W			
	AC1	A1YS	Initial
	MC1		Initial
Addl Intel Xeon Processor E5-2470 8C 2.3GHz 20MB Cache 1600MHz 95W			
	AC1	A1YU	Initial
	MC1		Initial
Addl Intel Xeon Processor E5-2450 8C 2.1GHz 20MB Cache 1600MHz 95W			
	AC1	A1YW	Initial
	MC1		Initial
Addl Intel Xeon Processor E5-2440 6C 2.4GHz 15MB Cache 1333MHz 95W			
	AC1	A1YX	Initial
	MC1		Initial

Addl Intel Xeon Processor E5-2430 6C 2.2GHz 15MB Cache 1333MHz 95W	AC1 MC1	A1YY	Initial Initial
Addl Intel Xeon Processor E5-2420 6C 1.9GHz 15MB Cache 1333MHz 95W	AC1 MC1	A1Z0	Initial Initial
Addl Intel Xeon Processor E5-2407 4C 2.2GHz 10MB Cache 1066MHz 80W	AC1 MC1	A1Z1	Initial Initial
Addl Intel Xeon Processor E5-2403 4C 1.8GHz 10MB Cache 1066MHz 80W	AC1 MC1	A1Z2	Initial Initial
Addl Intel Xeon Processor E5-2450L 8C 1.8GHz 20MB Cache 1600MHz 70W	AC1 MC1	A1Z3	Initial Initial
Addl Intel Xeon Processor E5-2430L 6C 2.0GHz 15MB Cache 1333MHz 60W	AC1 MC1	A1Z4	Initial Initial
x3630 M4 Planar	AC1 MC1	A1Z6	Initial Initial
3.5" Hot Swap BP Bracket Assembly , 8 x 3.5"	AC1 MC1	A1Z7	Initial Initial
3.5" Hot Swap BP Bracket Assembly, 12 x 3.5"	AC1 MC1	A1Z8	Initial Initial
3.5" Hot Swap Cage Assembly, Rear, 2 x 3.5"	AC1 MC1	A1Z9	Initial Initial
PCIe Riser Card 1 (1 x8 FH/HL + 1 x8 LP Slots)	AC1 MC1	A1ZA	Initial Initial
PCIe Riser Card 1 (1 x16 FH/HL Slot) for Graphic card	AC1 MC1	A1ZB	Initial Initial
PCIe Riser Card 2 (1 x4 LP for Slotless RAID)	AC1 MC1	A1ZC	Initial Initial
PCIe Riser Card 2 (1 x8 LP for Slotless RAID)	AC1 MC1	A1ZD	Initial Initial
PCIe Riser Card 1 (1 x8 FH/FL + 1 x8 FH/HL Slots)	AC1 MC1	A1ZE	Initial Initial
PCIe Riser Card 2 (2 x8 LP Slots + 1 x4 LP for Slotless RAID)	AC1 MC1	A1ZF	Initial Initial
PCIe Riser Card 1 (1 x16 FH/FL Slot)	AC1 MC1	A1ZG	Initial Initial
PCIe Riser Card 2 (1 x16 LP Slot + 1 x4 LP for Slotless RAID)	AC1 MC1	A1ZH	Initial Initial
EIA USB Board	AC1 MC1	A1ZJ	Initial Initial
EIA OP Board	AC1 MC1	A1ZK	Initial Initial
x3630 M4 ODD Cage assembly	AC1 MC1	A1ZL	Initial Initial
USB Tape Drive Cage assembling kit	AC1 MC1	A1ZM	Initial Initial

3.5" Simple Swap Bracket ASM Kit , 8 x 3.5"	AC1	A1ZN	Initial
	MC1		Initial
3.5" Simple Swap Bracket ASM Kit , 4 x 3.5"	AC1	A1ZP	Initial
	MC1		Initial
Label GBM	AC1	A1ZV	Initial
	MC1		Initial
2x2 HDD BRACKET	AC1	A1ZX	Initial
	MC1		Initial
x3630M4 Storage-Rich EIA LED cover kit	AC1	A1ZY	Initial
	MC1		Initial
x3630M4 Storage-Rich EIA USB cover kit	AC1	A200	Initial
	MC1		Initial
x3630M4 Entry EIA LED cover kit	AC1	A201	Initial
	MC1		Initial
x3630M4 Entry EIA USB cover kit	AC1	A203	Initial
	MC1		Initial
USB Tape Drive Enablement Kit	AC1	A204	Initial
	MC1		Initial
FPIO Enablement Kit	AC1	A206	Initial
	MC1		Initial
RAIL KIT	AC1	A207	Initial
	MC1		Initial
Simple Swap DUMMY Filler	AC1	A208	Initial
	MC1		Initial
CFF PSU FILLER	AC1	A209	Initial
	MC1		Initial
1U RIASER CAGE - SLOT 2	AC1	A20B	Initial
	MC1		Initial
1U BUTTERFLY RIASER CAGE - SLOT 1	AC1	A20C	Initial
	MC1		Initial
2U RIASER CAGE - SLOT 1	AC1	A20D	Initial
	MC1		Initial
2U BUTTERFLY RIASER CAGE - SLOT 2	AC1	A20E	Initial
	MC1		Initial
REAR 2U RISER CAGE Filler	AC1	A20H	Initial
	MC1		Initial
BIOS GBM	AC1	A20J	Initial
	MC1		Initial
x3630 M4 Chassis ASM w/o Planar	AC1	A20L	Initial
	MC1		Initial
x3630 M4 Package	AC1	A20P	Initial
	MC1		Initial
System Documentation and Software-US English	AC1	A20R	Initial
	MC1		Initial
Super Cap Cable 875MM	AC1	A22C	Initial
	MC1		Initial
Server RAID M5100 Series Battery Kit for IBM System x	AC1	A22E	Initial
	MC1		Initial
950MM Cable for Serv RAID M5100 Series Battery Kit	AC1	A22G	Initial

	MC1		Initial
2U Bracket for ServerAID M5120 SAS/SATA Controller	AC1	A22L	Initial
	MC1		Initial
IBM 1TB 7.2K 6Gbps NL SATA 3.5" G2HS HDD	AC1	A22P	Initial
	MC1		Initial
IBM 3TB 7.2K 6Gbps NL SATA 3.5" G2HS HDD	AC1	A22S	Initial
	MC1		Initial
IBM 2TB 7.2K 6Gbps NL SATA 3.5" G2HS HDD	AC1	A22T	Initial
	MC1		Initial
IBM 500GB 7.2K 6Gbps NL SATA 3.5" G2SS HDD	AC1	A22U	Initial
	MC1		Initial
IBM 3TB 7.2K 6Gbps NL SATA 3.5" G2SS HDD	AC1	A22V	Initial
	MC1		Initial
IBM 2TB 7.2K 6Gbps NL SATA 3.5" G2SS HDD	AC1	A22W	Initial
	MC1		Initial
IBM 1TB 7.2K 6Gbps NL SATA 3.5" G2SS HDD	AC1	A22X	Initial
	MC1		Initial
IBM 500GB 7.2K 6Gbps NL SATA 3.5" G2HS HDD	AC1	A22Y	Initial
	MC1		Initial
IBM 1TB 7.2K 6Gbps NL SAS 3.5" G2HS HDD	AC1	A26M	Initial
	MC1		Initial
x3630 M3 Agency Label	AC1	A288	Initial
	MC1		Initial
Label KC	AC1	A2CM	Initial
	MC1		Initial
Intel x520 Dual Port 10GbE SFP+ Adapter for IBM System x	AC1	A2EC	Initial
	MC1		Initial
IBM Blank USB Memory Key for VMware ESXi Downloads	AC1	A2G0	Initial
	MC1		Initial
Intel Ethernet Adapter Powerville - 4 port upgrade	AC1	A2GT	Initial
	MC1		Initial
Configuration ID 01	AC1	A2HP	Initial
	MC1		Initial
Configuration ID 02	AC1	A2HQ	Initial
	MC1		Initial
Configuration ID 03	AC1	A2HR	Initial
	MC1		Initial
Configuration ID 04	AC1	A2HS	Initial
	MC1		Initial
Configuration ID 05	AC1	A2HT	Initial
	MC1		Initial
Configuration ID 06	AC1	A2HU	Initial
	MC1		Initial
Configuration ID 07	AC1	A2HV	Initial
	MC1		Initial
Configuration ID 08	AC1	A2HW	Initial
	MC1		Initial
Configuration ID 09	AC1	A2HX	Initial
	MC1		Initial

Configuration ID 10	AC1 MC1	A2HY	Initial Initial
Configuration ID 11	AC1 MC1	A2HZ	Initial Initial
Configuration ID 12	AC1 MC1	A2J0	Initial Initial
Configuration ID 13	AC1 MC1	A2J1	Initial Initial
Configuration ID 14	AC1 MC1	A2J2	Initial Initial
Configuration ID 15	AC1 MC1	A2J3	Initial Initial
Configuration ID 16	AC1 MC1	A2J4	Initial Initial
Configuration ID 17	AC1 MC1	A2J5	Initial Initial
Configuration ID 18	AC1 MC1	A2J6	Initial Initial
Configuration ID 19	AC1 MC1	A2J7	Initial Initial
Configuration ID 20	AC1 MC1	A2J8	Initial Initial
Configuration ID 21	AC1 MC1	A2J9	Initial Initial
Configuration ID 22	AC1 MC1	A2JA	Initial Initial
Configuration ID 23	AC1 MC1	A2JB	Initial Initial
Configuration ID 24	AC1 MC1	A2JC	Initial Initial
Configuration ID 25	AC1 MC1	A2JD	Initial Initial
Configuration ID 26	AC1 MC1	A2JE	Initial Initial
Configuration ID 27	AC1 MC1	A2JF	Initial Initial
Configuration ID 28	AC1 MC1	A2JG	Initial Initial
Configuration ID 29	AC1 MC1	A2JH	Initial Initial
Configuration ID 30	AC1 MC1	A2JJ	Initial Initial
Configuration ID 31	AC1 MC1	A2JK	Initial Initial
Configuration ID 32	AC1 MC1	A2JL	Initial Initial
Configuration ID 33	AC1 MC1	A2JM	Initial Initial
Configuration ID 34	AC1	A2JN	Initial

	MC1		Initial
Configuration ID 35	AC1 MC1	A2JP	Initial Initial
Configuration ID 36	AC1 MC1	A2JQ	Initial Initial
Configuration ID 37	AC1 MC1	A2JR	Initial Initial
Configuration ID 38	AC1 MC1	A2JS	Initial Initial
Configuration ID 39	AC1 MC1	A2JT	Initial Initial
Configuration ID 40	AC1 MC1	A2JU	Initial Initial
Configuration ID 41	AC1 MC1	A2JV	Initial Initial
Configuration ID 42	AC1 MC1	A2JW	Initial Initial
Controller 01	AC1 MC1	A2JX	Initial Initial
Controller 02	AC1 MC1	A2JY	Initial Initial
Controller 03	AC1 MC1	A2JZ	Initial Initial
Controller 04	AC1 MC1	A2K0	Initial Initial
Controller 05	AC1 MC1	A2K1	Initial Initial
Primary Array - RAID 0	AC1 MC1	A2K6	Initial Initial
Primary Array - RAID 1	AC1 MC1	A2K7	Initial Initial
Primary Array - RAID 1E	AC1 MC1	A2K8	Initial Initial
Primary Array - RAID 5	AC1 MC1	A2K9	Initial Initial
Primary Array - RAID 6	AC1 MC1	A2KA	Initial Initial
Primary Array - RAID 10	AC1 MC1	A2KB	Initial Initial
Secondary Array - RAID 0	AC1 MC1	A2KF	Initial Initial
Secondary Array - RAID 1	AC1 MC1	A2KG	Initial Initial
Secondary Array - RAID 5	AC1 MC1	A2KJ	Initial Initial
Secondary Array - RAID 6	AC1 MC1	A2KK	Initial Initial
Secondary Array - RAID 10	AC1 MC1	A2KL	Initial Initial
x3630 M4 Shipping Bracket			

	AC1	A2M3	Initial
	MC1		Initial
Mellanox ConnectX-2 Dual-port QSFP QDR IB Adapter for IBM System x			
	AC1	A2MY	Initial
	MC1		Initial
IBM 3TB 7.2K 6Gbps NL SAS 3.5" G2HS HDD			
	AC1	A2R2	Initial
	MC1		Initial
Emulex Dual Port 10GbE SFP+ VFA III for IBM System x			
	AC1	A2U1	Initial
	MC1		Initial
Emulex VFA III FCoE/iSCSI License for IBM System x (FoD)			
	AC1	A2U2	Initial
	MC1		Initial
IBM System x Advanced Lightpath Kit			
	AC1	A2U6	Initial
	MC1		Initial
Emulex Dual Port 10GbE SFP+ Integrated VFA III for IBM System x			
	AC1	A2UN	Initial
	MC1		Initial
Broadcom NetXtreme I Quad Port GbE Adapter for IBM System x			
	AC1	A2V3	Initial
	MC1		Initial
Broadcom NetXtreme I Dual Port GbE Adapter for IBM System x			
	AC1	A2V4	Initial
	MC1		Initial
8-pack SATA Enabler for IBM System x			
	AC1	A2V7	Initial
	MC1		Initial
ServerRAID C105 for IBM System x			
	AC1	A2VA	Initial
	MC1		Initial
IBM USB Memory Key for VMware ESXi 5.0			
	AC1	A2VC	Initial
	MC1		Initial
Broadcom NetXtreme I Quad Port GbE Adapter - 2U Bracket			
	AC1	A2VX	Initial
	MC1		Initial
Broadcom NetXtreme I Dual Port GbE Adapter - 2U Bracket			
	AC1	A2VY	Initial
	MC1		Initial
2U bracket for Emulex 16Gb FC Single-port HBA for System x			
	AC1	A2W1	Initial
	MC1		Initial
2U bracket for Emulex 16Gb FC Dual-port HBA for System x			
	AC1	A2W2	Initial
	MC1		Initial
Emulex 16Gb FC Single-port HBA for IBM System x			
	AC1	A2W5	Initial
	MC1		Initial
Emulex 16Gb FC Dual-port HBA for IBM System x			
	AC1	A2W6	Initial
	MC1		Initial
No Power Cord Validation			
	AC1	A2X0	Initial
	MC1		Initial
2U Bracket for Brocade 16Gb FC Single-port HBA for IBM System x			
	AC1	A2XS	Initial
	MC1		Initial
2U Bracket for Brocade 16Gb FC Dual-port HBA for IBM System x			
	AC1	A2XT	Initial
	MC1		Initial

Brocade 16Gb FC Single-port HBA for IBM System x	AC1	A2XU	Initial
	MC1		Initial
Brocade 16Gb FC Dual-port HBA for IBM System x	AC1	A2XV	Initial
	MC1		Initial
ServerAID M5110 SAS/SATA Controller for IBM System x	AC1	A347	Initial
	MC1		Initial
Intel Xeon Processor E5-1410 4C 2.8GHz 10MB Cache 1333MHz 80W	AC1	A34F	Initial
	MC1		Initial

Machine/ Model number	Supp cat	Description
7158-AC1	IOR	IBM System x3630 M4
7158-MC1	IOR	IBM System x3630 M4

The Single Entity Offerings (SEO)	SEO number
IBM System x3630 M4	7158A2U
	7158A4U
	7158B2U
	7158B4U
	7158C2U
	7158C4U
	7158C6U
	7158D2U
	7158F2U
	7158F4U
	7158G2U
	7158H2U
	7158J2U

Option SEOs:

SEO number	Description
90Y4349	8-pack SATA Enabler for IBM System x
90Y6381	Riser Kit for Slot 1
90Y6383	Riser Kit for Slot 2 with Slotless RAID
90Y6370	USB Tape Drive Cage assembling kit
90Y6356	Intel Xeon Processor E5-2470
8C 2.3GHz 20MB Cache 1600MHz 95W	
90Y6361	Intel Xeon Processor E5-2450
8C 2.1GHz 20MB Cache 1600MHz 95W	
90Y6362	Intel Xeon Processor E5-2440
6C 2.4GHz 15MB Cache 1333MHz 95W	
90Y6363	Intel Xeon Processor E5-2430
6C 2.2GHz 15MB Cache 1333MHz 95W	
90Y6364	Intel Xeon Processor E5-2420
6C 1.9GHz 15MB Cache 1333MHz 95W	
90Y6365	Intel Xeon Processor E5-2407
4C 2.2GHz 10MB Cache 1066MHz 80W	
90Y6367	Intel Xeon Processor E5-2403
4C 1.8GHz 10MB Cache 1066MHz 80W	
90Y6368	Intel Xeon Processor E5-2450L
8C 1.8GHz 20MB Cache 1600MHz 70W	
90Y6384	Intel Xeon Processor E5-2430L
6C 2.0GHz 15MB Cache 1333MHz 60W	
00D8603	PCIe Riser Card 2 (1 x8 LP for Slotless RAID)
00D8604	PCIe Riser Card 2
(2 x8 LP Slots + 1 x4 LP for Slotless RAID)	
00D9034	3.5" Hot Swap Cage Assembly, Rear, 2 x 3.5"
00D9051	x3630 M4 ODD Cage assembly

Maintenance charges

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

ServicePac for Warranty and Maintenance

Machine type/ Model	Service description	ServicePac	
		SEO	MTM
7158	3 Year Onsite Repair 9x5 4 Hour Response	46Y0374	675681Q
7158	3 Year Onsite Repair 24x7 4 Hour Response	46Y0375	675681R
7158	3 Year Onsite Repair 24x7 2 Hour Response	46Y0376	675681S
7158	4 Year Onsite Repair 9x5 Next Business Day	46Y0377	675681T
7158	4 Year Onsite Repair 9x5 4 Hour Response	46Y0378	675681U
7158	4 Year Onsite Repair 24x7 4 Hour Response	46Y0379	675681V
7158	4 Year Onsite Repair 24x7 2 Hour Response	46Y0380	675681W
7158	5 Year Onsite Repair 9x5 Next Business Day	46Y0381	675681X
7158	5 Year Onsite Repair 9x5 4 Hour Response	46Y0382	675681Y
7158	5 Year Onsite Repair 24x7 4 Hour Response	46Y0383	675681Z
7158	5 Year Onsite Repair 24x7 2 Hour Response	46Y0384	6756820
7158	3 Year Onsite Repair 24x7 4 Hour Response with HDDR	46Y0385	6756821
7158	4 Year Onsite Repair 24x7 4 Hour Response with HDDR	46Y0386	6756822
7158	4 Year Onsite Repair 9x5 Next Business Day Response with HDDR	46Y0387	6756823
7158	5 Year Onsite Repair 24x7 4 Hour Response with HDDR	46Y0388	6756824
7158	5 Year Onsite Repair 9x5 Next Business Day Response with HDDR	46Y0389	6756825

ServicePac for Maintenance Agreement

Machine type/ Model	Service description	ServicePac	
		SEO	MTM
7158	1 Year Onsite Repair 9x5 Next Business Day	46Y0390	6756MZA
7158	1 Year Onsite Repair 9x5 4 Hour Response	46Y0391	6756MZB
7158	1 Year Onsite Repair 24x7 4 Hour Response	46Y0392	6756MZC
7158	1 Year Onsite Repair 24x7 2 Hour Response	46Y0393	6756MZD
7158	2 Year Onsite Repair 9x5 Next Business Day	46Y0394	6756MZF
7158	2 Year Onsite Repair 9x5 4 Hour Response	46Y0395	6756MZG
7158	2 Year Onsite Repair 24x7 4 Hour Response	46Y0396	6756MZH
7158	2 Year Onsite Repair 24x7 2 Hour Response	46Y0397	6756MZJ
7158	1 Year Onsite Repair 24x7 4 Hour Response with HDDR	46Y0398	6756MZK
7158	2 Year Onsite Repair 24x7 4 Hour Response with HDDR	46Y0399	6756MZM
7158	1 Year Onsite Repair 9x5 Next Business Day Response with HDDR	46Y0400	6756MZN
7158	2 Year Onsite Repair 9x5 Next Business Day with HDDR	46Y0454	6756MZP

ServicePac for Essential Support

Warranty and Maintenance Option plus Remote Technical Support

Machine type/ Model	Service description	ServicePac	
		SEO	MTM
7158	3 Year Essential Support 24x7 4 Hour Response	46Y0455	N/A

Maintenance plus Remote Technical Support

Machine type/ Model	Service description	ServicePac	
		SEO	MTM
7158	1 Year Essential Support 24x7 4 Hour Response	46Y0456	N/A
7158	1 Year Essential Support 9x5 Next Business Day Response	46Y0457	N/A

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