

# IBM System x3550 M5 servers include Intel Xeon multi-core processors

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## At a glance



IBM® System x3550 M5 servers deliver power, scalability, control, and serviceability for dynamic high-performance computing applications:

- Ultrathin, high-availability, and rack-optimized servers
- High-speed 2133 MHz DDR4 SDRAM Registered DIMMs standard; 24 DIMM slots that support up to 384 GB maximum memory optional 16 GB RDIMMs, or up to 1.5 TB of memory with LRDIMMs
- Support for up to 12 hot-swap 2.5-inch SAS/SATA HDDs or SSDs or up to 4 hot-swap SAS/SATA 3.5-inch HDDs
- Up to three x16 PCIe 3.0 slots on 2-processor servers
- 550-watt, 750-watt, or 900-watt auto-ranging power supplies (optional redundant and hot-swap)
- Integrated systems management processor
- Integrated Broadcom NetXtreme 1 quad Gigabit Ethernet ports for high I/O capacity, plus one gigabit Management Port
- One serial port (16550A-compatible)
- USB ports
  - 2.5-inch model has seven ports (two front, four back, and one internal)
  - 3.5-inch model has eight ports (three front, four back, and one internal)
- Two video ports (front and rear)

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

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## Overview

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These 1U-high, rack-optimized servers feature increased frequency, optimized performance, and improved systems management for business-critical applications and cloud deployments built on IBM X-Architecture®.

### Optimized for performance

New, innovative, energy-smart design with powerful high-performance processors, a large capacity of high-performing DDR4 memory, and an improved feature set ideal for business-critical applications and cloud deployments:

- Up to two 18-core powerful Intel Xeon™ E5-2600 v3 series processors
- Twenty-four DIMM (RDIMM/LRDIMM) slots that enable you to deploy up to 1.5 TB of DDR4 LRDIMM memory, and fast memory bandwidth with the ability to support 2133 MHz<sup>1</sup> RDIMMs
- Dedicated slotless 12 Gbps hardware RAID 0, RAID 1, and RAID 10 or optional RAID 5, RAID 50, RAID 6, or RAID 60 (model dependent) and up to 4 GB Flashback cache
- Support for up to twelve hot-swap 2.5-inch SAS/SATA HDDs or SSDs or up to four hot-swap SAS/SATA 3.5-inch HDDs
- Highly functional chipset optimized for better application computing for general business workloads
- Integrated Broadcom NetXtreme 1 quad Gigabit Ethernet ports for high I/O capacity, and optional Broadcom, Emulex, Intel™, Mellanox, and QLogic 2x10 GbE ports supported in the Mezzanine LOM Gen2 form factor
- Up to three PCIe 3.0 x16 slots to help provide flexibility and greater performance with long-term investment protection
- Optional Broadcom 10GbE adapter supported in SFP+ and 10GbaseT, and Broadcom 2 and 4 port GbE adapters. Broadcom enables low-cost migration to 10Gb Ethernet for applications such as analytics, public and private cloud, and virtualization
- New energy-efficient design incorporating 750-watt Titanium power supplies, up to eight cooling fans, and energy-efficient planar components to help lower operational costs

### Manage with efficiency

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

- IBM Systems Director Active Energy Manager™ for advanced data center power notification and management to help achieve lower heat output and reduced cooling needs
- Snoop filters to boost processor performance
- Dedicated slotless SAS controller for up to twelve 2.5-inch, hot-swap HDD bays
- Memory mirroring, configurable using Unified Extensible Firmware Interface (UEFI) setup
- Integrated Management Module (IMM2) systems management processor with optional Feature on Demand (FoD) remote presence
- Monitoring and control of operating status and key server components
- Predictive Failure Analysis (PFA) on selected components that warns of problems before they occur
- Fast and easy servicing through innovative light path diagnostics, improved onboard diagnostics, and LED diagnostic panel

## Excellent RAS and outstanding uptime for an improved business environment

- Redundant, hot-swap components designed to make it easy to replace failures without taking your system down
  - Hot-swap, redundant fans with calibrated vectored cooling to keep components cool, and simplified fan replacement
  - Hot-swap, redundant power supplies to help reduce downtime
  - Hot-swap, RAID protection disk to help secure your data and reduce downtime
- Predictive Failure Analysis, which provides advanced warning on processors, memory, disks, fans, power supplies, and VRMs
- Optional LCD light path diagnostics panel, which provides information about a failing component without requiring opening of the chassis or interruption of system operation, and expedites hardware repairs to dramatically reduce service time
- IBM Director and web support
- Three-year, customer replaceable unit (CRU) and on-site labor<sup>2</sup>, limited warranty<sup>3</sup>; optional warranty service upgrades available

<sup>1</sup> GHz and MHz denote the internal and/or external clock speed of the microprocessor only, not application performance. Many factors affect application performance.

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

<sup>3</sup> For 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.

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## Feature exchange

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None

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## Key prerequisites

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Monitor, USB keyboard, and USB mouse

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

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## Planned availability date

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October 30, 2014: All except the following options:

- September 15, 2014:
  - 00JY840 (AS3M) Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x®
  - 00JY830 (A5UU) Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI ISW for IBM System x
  - 00JY820 (A5UT) Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x
  - 00JY824 (A5UV) Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x(FoD)
- November 19, 2014:
  - 00FP650 (A5RK) Mellanox ConnectX-3 Pro ML2 2x40GbE/FDR VPI Adapter for IBM System x

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## Description

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### System x3550 M5 server

The System x3550 M5 server features Intel Xeon multi-core processors that support internal processing speeds of up to 3.5 GHz<sup>1</sup>, and memory speeds up to 2133 MHz.

### High-performance server subsystems

The System x3550 M5 expands the new server line by adding a higher level of processor power. This high-throughput, two-way multi-core server offers excellent performance and scalability when you add memory and a second processor. It incorporates powerful Xeon processors with up to 45 MB L3 cache. The advanced transfer L3 cache is integrated onto the processor and runs at the same clock speed. The advanced transfer cache is a result of a "backside bus" 256 bits wide. It features a quad-wide cache line that can transfer four 64-bit cache line segments at one time to deliver full-speed capability. The cache is eight-way set associative.

Two Intel Xeon processor connectors are standard on the system board to support installation of a second processor, up to 45 MB cache, and up to two 8.0 GT/s QuickPath Interconnects (QPIs) with new Hyper Threading and Intel Turbo Boost Technology 2.0. High-speed PC3 DDR4 Advanced Memory Feature DIMMs run at up to 2133 MHz DRAM clock speed and offer maximum 14900 Mbps bandwidth, processor-to-memory subsystem performance. The x3550 M5 server uses the Intel Xeon E5-2600 v3 processor with Chipkill technology to maximize throughput from processors, to memory, to the 32-bit and 64-bit PCI buses.

### Additional features

- Up to 36-core processing achieved with a second processor of equal speed and processor type.
- System board containing 24 DIMM (RDIMM/LRDIMM) connectors supporting 4 GB, 8 GB, 16 GB, 32 GB, and 64 GB DDR4 PC3-14900 SDRAM ECC DIMMs with:
  - DDR4 memory for improved performance
  - Up to 384 GB of system memory using optional 16 GB RDIMMs or up to 1.5 TB of memory with 64 GB LRDIMMs
- Up to three PCIe 3.0 slots. Clients ordering a single-processor model can:
  - Select three PCIe 3.0 slots: one PCIe 3.0 x16 low profile, one x8 low profile or half length, full height; and one x8 low profile.
  - With second CPU population, optionally buy two x16 low profile or half length, full height PCIe 3.0 slots to replace two x8 low profile or half length, full height slots.
- On standard models, four 2.5-inch bays or four 3.5-inch bays to support optional SAS/SATA HDDs and one bay to support an optical drive.
- Broadcom 5719 Quad-port Gbit Ethernet on board.

The System x3550 M5 offers solid system throughput from processor, to memory, to bus, to disk-intensive I/O. These features, combined with multi-core capability, make the x3550 M5 server an excellent choice for a stand-alone or clustered general-business application, file, and print server.

### High-availability and serviceability features

The System x3550 M5 subsystem delivers excellent reliability and serviceability features:

- Support for light path diagnostics with viewable drop-down panel, Wake on LAN, and Preboot Execution Environment (PXE)
- Up to eight hot-swap dual-motor cooling fans
- Up to twelve 2.5-inch HS HDDs with optional upgrade kit

- Chipkill memory that basically distributes information covered by error correction coding across separate memory chips; if any of the chips fail, the data can in many cases still be reconstructed from the remaining chips, and the system can continue running
- ECC L3 cache processors to help improve data integrity and help reduce downtime
- PFA on HDD options, memory, power supply, and fans (when Remote Supervisor Adapter is installed), to help alert the system administrator of imminent component failure
- IBM Integrated Management Module Advanced Upgrade (Feature on Demand (FoD) to enable the remote presence and blue-screen capture features
- Integrated Management Module systems management processor that supports:
  - Automatic server restart (ASR)
  - Fan monitoring and control
  - Power supply monitoring
  - Temperature monitoring
  - Voltage monitoring
  - Power on/off, reset sequencing
  - LED controls (onboard diagnostics support with light path LED)
  - Remote power control
  - Local firmware update
  - Error logging
- Information LED panel for visual indications of system well-being
- Onboard diagnostics with an LED map to locate a failing component, helping reduce downtime and service costs
- Support for virtual floppy (with optional IBM Integrated Management Module Advanced Upgrade) which enables a user to easily direct a remote host to boot, and use standard instructions stored anywhere on the network
- Easily accessible system board, adapter cards, processor, and memory
- CPU failure recovery in some configurations, which:
  - Forces the failed processor offline
  - Reboots the server automatically
  - Generates alerts
  - Continues operations with the working processor

### **Expandability and growth**

The System x3550 M5 includes a lot of function and storage capacity in a 1U 19-inch rack-drawer package, yet it is designed to be easy to upgrade and service. Functions such as SVGA video and SAS are integrated on the system board. Features include:

- Rack-drawer models designed for 19-inch-wide by 28-inch-deep industry-standard rack enclosures, such as the NetBAY42 SR
- Up to three PCIe 3.0 adapter card slots available; one PCIe x16 plus slot, plus two PCIe x8 (16 with second processor)
- System board optional upgrades (PCI slot not required)
  - IBM Integrated Management Module Advanced Upgrade. Remote presence function can be enabled by Feature on Demand (FoD).
- Support for up to 24 TB of internal data storage, using four 6 TB 3.5-inch SAS/SATA HDDs

### **Systems management**

Integrated Management Module (IMM2): The System x3550 M5 includes an Integrated Management Module that provides industry-standard Intelligent Platform Management Interface (IPMI) 2.0-compliant systems management. The IMM2 comes standard, and shares one of the four onboard Ethernet ports for access. The IMM2

can be accessed using software that is compatible with IPMI 2.0 (for example, xCAT). The IMM2 is implemented using industry-leading Open Systems Adapter (OSA) firmware and applications in conjunction with the Integrated Management Module.

Features and benefits:

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

With video compression now built into the adapter hardware, it is designed to allow the greater screen sizes and refresh rates that are becoming common 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.

<sup>1</sup> GHz and MHz denote the internal and/or external clock speed of the microprocessor only, not application performance. Many factors affect application performance.

### ***IBM Integrated Management Module Advanced Upgrade (FoD)***

The optional IBM Integrated Management Module Advanced Upgrade delivers advanced control and monitoring features to manage your IBM System x3550 M5 server at virtually any time, from virtually any place. The key can be enabled by FoD. This key enables easy console redirection with text and graphics, and keyboard and mouse (operating system must support USB) support over the system management LAN connections.

### ***IBM Director***

The System x3550 M5 server is supported by IBM Director, a powerful, highly integrated, systems-management software solution built on industry standards and designed for ease of use. Exploit your existing enterprise or workgroup-management environments, and use rich security to access and manage physically dispersed IT assets more efficiently over the Internet. It can help reduce costs through potentially:

- Reduced downtime

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

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

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

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

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

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

IBM Director integrates into leading workgroup and enterprise systems management environments through 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

### ***IBM Active Energy Manager***

IBM Active Energy Manager offers direct monitoring of power consumption and thermal load of your server through IBM Director. You can monitor power consumption to track utilization of energy resources. IBM Active Energy Manager is a leading solution on the market providing users with the combination of intelligence and features needed to effectively monitor power consumption in the data center. Active Energy Manager, an extension to IBM Director systems management software, allows clients to "meter" actual power usage and trend data for any single physical system or group of systems. Developed by IBM Research, Active Energy Manager utilizes IBM-developed monitoring circuitry to help identify how much actual power is being used and the temperature of the system. The software is available across the new IBM System x servers, as well as IBM's BladeCenter® line of systems. With Active Energy Manager, the user can understand the actual power draw.

With the addition of the optional IBM Integrated Management Module Advanced Upgrade, the IT administrator achieves comprehensive, virtual on-site control of System x servers through the ability to remotely:

- Access the server, in many cases regardless of the 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
- Run diagnostics, SCSI, and RAID setup during POST
- Monitor thresholds on server health, including:
  - Operating system load
  - POST time-out
  - Voltage
  - Temperature
- Set proactive alerts for critical server events, including PFA on:
  - Memory
  - Fans
  - HDDs
  - Power supplies
- Define automated actions, such as:
  - Send an email or a page to an administrator
  - Run a command or program
  - Send an error message to the director console
- Manage flash UEFI
- Monitor and graph the utilization of server resources, such as:
  - Memory
  - Processor
  - HDDs
- Identify potential performance bottlenecks and react to prevent downtime
- Monitor, manage, and configure RAID subsystems without taking them off line



## Advanced Configuration and Power Interface (ACPI)

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

## World-class support tools and programs

The System x3550 M5 tools and programs can make ownership a positive experience. From the start, IBM programs help you purchase servers, get them running, and keep them running. IBM can help your company maintain ownership of technology leadership network servers.

- The server purchase includes a three-year, customer replaceable unit (CRU) and on-site service, limited warranty; optional warranty service upgrades are available.
- The ServerProven® program lets you confidently configure your server with various devices and operating systems. This web-based program provides compatibility information from actual testing of the System x3550 M5 server with various adapters and devices.
- Electronic support on the web offers additional support in an easy-to-use format.

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

## Standard System x3550 M5 configurations

Model number	Processor	Memory	GT/s	HDD Interface	HDD	Other
5463A2x	E5-2603 v3 (6C) 1.6 GHz	8 GB Cache: 15 MB	6.4	SAS/SATA M1215	2.5-in	Open bay 1 x 550W
5463B2x	E5-2609 v3 (6C) 1.9 GHz	8 GB Cache: 15 MB	6.4	SAS/SATA M1215	3.5-in	Open bay 1 x 550W
5463C2x	E5-2620 v3 (6C) 2.4 GHz	16 GB Cache: 15 MB	8.0	SAS/SATA M1215	2.5-in	Open bay 1 x 550W
5463C4x	E5-2620 v3 (6C) 2.4 GHz	16 GB Cache: 15 MB	8.0	SAS/SATA M1215	3.5-in	Open bay 1 x 550W
5463D2x	E5-2630 v3 (8C) 2.4 GHz	16 GB Cache: 20 MB	8.0	SAS/SATA M5210 + 1 GB Flash	2.5-in	Open bay 1 x 550W
5463F2x	E5-2640 v3 (8C) 2.6 GHz	16 GB Cache: 20 MB	8.0	SAS/SATA M5210 + 1 GB Flash	2.5-in	Open bay 1 x 550W
5463G2x	E5-2650 v3 (10C) 2.3 GHz	16 GB Cache: 25 MB	9.6	SAS/SATA M5210 + 1 GB Flash	2.5-in	Open bay 1 x 550W
5463H2x	E5-2630L v3 (8C) 1.8 GHz	16 GB Cache: 20 MB	8.0	SAS/SATA M5210 + 1 GB Flash	2.5-in	Open bay 1 x 550W
546362x	E5-2670 v3 (12C) 2.3 GHz	16 GB Cache: 30 MB	9.6	SAS/SATA M5210 + 2 GB Flash	2.5-in	Open bay 1 x 750W
5463J2x	E5-2680 v3 (12C)					

	2.5 GHz Cache: 30 MB	16 GB	9.6	SAS/SATA M5210 + 2	2.5-in GB Flash	Open bay 1 x 750W
5463L2x	E5-2690 v3 (12C) 2.6 GHz Cache: 30 MB	16 GB	9.6	SAS/SATA M5210	2.5-in	Open bay 1 x 750W
5463M2x	E5-2699 v3 (18C) 2.3 GHz Cache: 45 MB	16 GB	9.6	SAS/SATA M5210	2.5-in	Open bay 1 x 900W

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

### Express® models

Model number	Processor	Memory	GT/s	HDD Interface	HDD	Other
5463EAU	1.9 GHz Cache: 15 MB	8 GB	6.4	SAS/SATA M1215 Multi-burner	2.5-in	Open bay hot-swap 1 x 550W
5463EBU	2.4 GHz Cache: 15 MB	16 GB	8.0	SAS/SATA M5210 Multi-burner	2.5-in	Open bay hot-swap 1 x 550W
5463ECU	2.6 GHz Cache: 20 MB	16 GB	8.0	SAS/SATA M5210 Multi-burner	2.5-in	Open bay hot-swap 1 x 550W
5463EDU	2.3 GHz Cache: 25 MB	16 GB	8.0	SAS/SATA M5210 Multi-burner	2.5-in	Open bay hot-swap 1 x 750W
5463EEU 2x	2.4 GHz Cache: 15 MB	32 GB	9.6	SAS/SSD M5210 + 2GB Flash Multi-burner	2.5-in	Open bay hot-swap 2 x 550W
5463EFU 2x	2.2 GHz Cache: 25 MB	64 GB	8.0	SAS/SSD M5210 + 4GB Flash Multi-burner	2.5-in	Open bay hot-swap 2 x 550W

### Accessibility by people with disabilities

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

[http://www.ibm.com/able/product\\_accessibility/index.html](http://www.ibm.com/able/product_accessibility/index.html)

### Product positioning

The System x3550 M5 server is a part of the System x rack-optimized server line. This 2-socket server delivers Intel Xeon multi-core high-speed processors and excellent server function in an ultrathin, rack-optimized, 1U footprint.

#### Optimized for speed

The System x3550 M5 server offers new levels of fast Intel Xeon multi-core processors with up to 8.0 GT/s and lower power for business-critical applications and cloud deployments. This server is uniquely optimized for better application computing with a highly functional chipset and 24 DIMM slots for a maximum of 384 GB of DDR-4 SDRAM Registered DIMM memory, or up to 1.5 TB of memory with LRDIMM.

## Innovation comes standard

- Application efficiency increases with snoop filters that free up cache and improve processor performance.
- Supercharged Traffic Offload Engine (TOE) optimizes system performance by offloading protocol processing.
- A drop-down light path diagnostics panel improves in-rack manageability and allows easy problem identification.

## Optimized fault-tolerant protection

- A memory mirroring feature enables you to increase memory reliability.
- A SAS controller with RAID 0, RAID 1, RAID 10, RAID 5, and RAID 50 on hot-swap SAS models helps safeguard your data at no additional cost.

## Target applications

- General purpose computing
- Database, ERP, Mail, and Web 2.0 applications
- Business-critical applications and cloud deployments
- Finance trading applications
- High-performance computing

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## Statement of general direction

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IBM plans to add the following enhancements to the x3550 M5 offering in the future:

- Support for DDR4 64GB LRDIMM
- Support for IBM Enterprise Value io3 Flash Adapter for System x
- Support for IBM Enterprise io3 Flash Adapter for System x
- Support for additional brands and networking protocols on our ML2 or PCIe cards (for example: 10 GbE, SFP+, BaseT, and Infiniband) from many manufactures (for example: Broadcom, Emulex, Intel, Mellanox, and QLogic).
- ENERGY STAR compliance.

All statements regarding IBM's plans, directions, and intent are subject to change or withdrawal without notice. Any reliance on these statements of general direction is at the relying party's sole risk and will not create liability or obligation for IBM.

IBM's statements regarding its plans, directions, and intent are subject to change or withdrawal without notice at IBM's sole discretion. Information regarding potential future products is intended to outline our general product direction and it should not be relied on in making a purchasing decision. The information mentioned regarding potential future products is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. Information about potential future products may not be incorporated into any contract. The development, release, and timing of any future features or functionality described for our products remains at our sole discretion.

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## Product number

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The following are newly announced features on the specified models of the IBM xSeries 5463 machine type:

Description	MT	Model	Feature
5463-AC1	5463	AC1	
QLogic 10Gb SFP+ SR Optical Transceiver	5463	AC1	0064
Brocade 10Gb SFP+ SR Optical Transceiver	5463	AC1	0069

UID Asset Tag Label	5463	AC1	0747
EMEA Long Leadtime Configurations	5463	AC1	1763
Hungary CHW plant 9SH	5463	AC1	1764
Guad CHW plant 9KQ	5463	AC1	1765
ISTC CHW 9K2	5463	AC1	1766
RTP CHW 9NR	5463	AC1	1767
Offload Manufacturing to Guadalajara HVEC	5463	AC1	1768
Offload Manufacturing to RTP HVEC	5463	AC1	1769
Offload Manufacturing to ISTC	5463	AC1	1770
Routing for AP Foxconn	5463	AC1	1771
Capacity Scheduling Service	5463	AC1	1772
Custom SLA Scheduling Service	5463	AC1	1796
Custom Asset Tagging - Standard	5463	AC1	2200
Custom Asset Tagging - Enhanced	5463	AC1	2201
Custom Image Load - Server	5463	AC1	2204
Custom Media Shipgroup	5463	AC1	2206
Request for Global Trade Number (UPC or EAN)	5463	AC1	2207
Custom Software/Firmware Setting - Standard	5463	AC1	2208
Custom Software/Firmware Setting - Enhanced	5463	AC1	2209
Custom RAID Configuration	5463	AC1	2212
Custom Unit Carton Label	5463	AC1	2220
Request for a new Vendor Logo Hardware	5463	AC1	2247
Request for a Classic RPQ	5463	AC1	2248
RAID Configuration	5463	AC1	2302
Rack Installation of 1U Component	5463	AC1	2305
Primary Array 12 HDDs	5463	AC1	2400
Secondary Array 9 HDDs	5463	AC1	2405
Secondary Array 10 HDDs	5463	AC1	2406
Install largest capacity, faster drives starting in Array 1	5463	AC1	2498
Install smallest capacity, slower drives starting in Array 1	5463	AC1	2499
Rack 01	5463	AC1	3101
Rack 02	5463	AC1	3102
Rack 03	5463	AC1	3103
Rack 04	5463	AC1	3104
Rack 05	5463	AC1	3105
Rack 06	5463	AC1	3106
Rack 07	5463	AC1	3107
Rack 08	5463	AC1	3108
Rack 09	5463	AC1	3109
Rack 10	5463	AC1	3110
Rack 11	5463	AC1	3111
Rack 12	5463	AC1	3112
Rack 13	5463	AC1	3113
Rack 14	5463	AC1	3114
Rack 15	5463	AC1	3115
Rack 16	5463	AC1	3116
Rack 17	5463	AC1	3117
Rack 18	5463	AC1	3118
Rack 19	5463	AC1	3119
Rack 20	5463	AC1	3120
Rack 21	5463	AC1	3121
Rack 22	5463	AC1	3122
Rack 23	5463	AC1	3123
Rack 24	5463	AC1	3124
Rack 25	5463	AC1	3125
Rack 26	5463	AC1	3126
Rack 27	5463	AC1	3127
Rack 28	5463	AC1	3128
Rack 29	5463	AC1	3129
Rack 30	5463	AC1	3130
Rack 31	5463	AC1	3131
Rack 32	5463	AC1	3132
Rack 33	5463	AC1	3133
Rack 34	5463	AC1	3134
Rack 35	5463	AC1	3135
Rack 36	5463	AC1	3136
Rack 37	5463	AC1	3137
Rack 38	5463	AC1	3138
Rack 39	5463	AC1	3139
Rack 40	5463	AC1	3140

Rack 41	5463	AC1	3141
Rack 42	5463	AC1	3142
Rack 43	5463	AC1	3143
Rack 44	5463	AC1	3144
Rack 45	5463	AC1	3145
Rack 46	5463	AC1	3146
Rack 47	5463	AC1	3147
Rack 48	5463	AC1	3148
Rack 49	5463	AC1	3149
Rack 50	5463	AC1	3150
Rack 51	5463	AC1	3151
Rack 52	5463	AC1	3152
Rack 53	5463	AC1	3153
Rack 54	5463	AC1	3154
Rack 55	5463	AC1	3155
Rack 56	5463	AC1	3156
Rack 57	5463	AC1	3157
Rack 58	5463	AC1	3158
Rack 59	5463	AC1	3159
Rack 60	5463	AC1	3160
Rack 61	5463	AC1	3161
Rack 62	5463	AC1	3162
Rack 63	5463	AC1	3163
Rack 64	5463	AC1	3164
Rack location U01	5463	AC1	3201
Rack location U02	5463	AC1	3202
Rack location U03	5463	AC1	3203
Rack location U04	5463	AC1	3204
Rack location U05	5463	AC1	3205
Rack location U06	5463	AC1	3206
Rack location U07	5463	AC1	3207
Rack location U08	5463	AC1	3208
Rack location U09	5463	AC1	3209
Rack location U10	5463	AC1	3210
Rack location U11	5463	AC1	3211
Rack location U12	5463	AC1	3212
Rack location U13	5463	AC1	3213
Rack location U14	5463	AC1	3214
Rack location U15	5463	AC1	3215
Rack location U16	5463	AC1	3216
Rack location U17	5463	AC1	3217
Rack location U18	5463	AC1	3218
Rack location U19	5463	AC1	3219
Rack location U20	5463	AC1	3220
Rack location U21	5463	AC1	3221
Rack location U22	5463	AC1	3222
Rack location U23	5463	AC1	3223
Rack location U24	5463	AC1	3224
Rack location U25	5463	AC1	3225
Rack location U26	5463	AC1	3226
Rack location U27	5463	AC1	3227
Rack location U28	5463	AC1	3228
Rack location U29	5463	AC1	3229
Rack location U30	5463	AC1	3230
Rack location U31	5463	AC1	3231
Rack location U32	5463	AC1	3232
Rack location U33	5463	AC1	3233
Rack location U34	5463	AC1	3234
Rack location U35	5463	AC1	3235
Rack location U36	5463	AC1	3236
Rack location U37	5463	AC1	3237
Rack location U38	5463	AC1	3238
Rack location U39	5463	AC1	3239
Rack location U40	5463	AC1	3240
Rack location U41	5463	AC1	3241
Rack location U42	5463	AC1	3242
Rack location U43	5463	AC1	3243
Rack location U44	5463	AC1	3244
Rack location U45	5463	AC1	3245
Rack location U46	5463	AC1	3246
Rack location U47	5463	AC1	3247
QLogic 8Gb FC Single-port HBA for IBM System x	5463	AC1	3578
QLogic 8Gb FC Dual-port HBA for IBM System x	5463	AC1	3579
Emulex 8Gb FC Single-port HBA for IBM System x	5463	AC1	3580

Emulex 8Gb FC Dual-port HBA for IBM System x	5463	AC1	3581
Brocade 8Gb FC Single-port HBA for IBM System x	5463	AC1	3589
Brocade 8Gb FC Dual-port HBA for IBM System x	5463	AC1	3591
IBM 3M SAS Cable	5463	AC1	3707
IBM 1M SAS Cable	5463	AC1	3708
IBM USB Conversion Option Pack	5463	AC1	3756
IBM Single Cable USB Conversion Option (UCO)	5463	AC1	3757
2U bracket for Emulex 8Gb FC Single-port HBA for System x	5463	AC1	4047
2U bracket for Emulex 8Gb FC Dual-port HBA for System x	5463	AC1	4048
2U bracket for QLogic 8Gb FC Single-port HBA for System x	5463	AC1	4049
IBM SFP+ SR Transceiver	5463	AC1	5053
IBM Serial Conversion Option (SCO)	5463	AC1	5340
IBM Virtual Media Conversion Option Gen2 (VC02)	5463	AC1	5341
Select Storage devices - no IBM-configured RAID required	5463	AC1	5977
Select Storage devices - IBM-configured RAID	5463	AC1	5978
SDFS Solution Code MFG Instruction	5463	AC1	6124
SAP-BWA Solution Code MFG Instruction	5463	AC1	6125
InfoSphere-BWA Solution Code MFG Instruction	5463	AC1	6126
GMAS Solution Code MFG Instruction	5463	AC1	6127
IBW-SSD Solution Code MFG Instruction	5463	AC1	6128
Cloudburst Solution Code MFG Instruction	5463	AC1	6129
SONAS Solution Code MFG Instruction	5463	AC1	6130
1.5m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable	5463	AC1	6201
2.8m, 10A/100-250V, C13 to IEC 320-C20 Rack Power Cable	5463	AC1	6204
Line cord - 4.3M, 10A/125V, C13 to NEMA 5-15P (US)	5463	AC1	6207
4.3m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable	5463	AC1	6263
2.8m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable	5463	AC1	6311
2.8m, 10A/120V, C13 to NEMA 5-15P (US) Line Cord	5463	AC1	6313
Rack power cable - 2.0m, 125-250V, C13 to IEC 320-C14 (WW)	5463	AC1	6316
Line cord - 1.8m, 10A/250V, C13 to NEMA 6-15P (US)	5463	AC1	6351
Line cord - 1.8M, 10A/125V, C13 to NEMA 5-15P (US)	5463	AC1	6369
Line cord - 2.8m, 10A/250V, C13 to NEMA 6-15P (US)	5463	AC1	6372
2.8m, 13A/125-10A/250V, C13 to IEC 320-C14 Rack Power Cable	5463	AC1	6400
Primary Array 2 HDDs	5463	AC1	7008
Primary Array 3 HDDs	5463	AC1	7009
Primary Array 4 HDDs	5463	AC1	7010
Primary Array 5 HDDs	5463	AC1	7011
Primary Array 6 HDDs	5463	AC1	7012
Primary Array 7 HDDs	5463	AC1	7013
Primary Array 8 HDDs	5463	AC1	7014
Secondary Array 2 HDDs	5463	AC1	7015
Secondary Array 3 HDDs	5463	AC1	7016
Secondary Array 4 HDDs	5463	AC1	7017
Secondary Array 5 HDDs	5463	AC1	7057
Secondary Array 6 HDDs	5463	AC1	7058
Secondary Array 7 HDDs	5463	AC1	7059
Secondary Array 8 HDDs	5463	AC1	7060
2U bracket for QLogic 8Gb FC Dual-port HBA for System x	5463	AC1	7550
2U Bracket for Brocade 8Gb FC Single-port HBA for IBM System x	5463	AC1	7594
2U Bracket for Brocade 8Gb FC Dual-port HBA for IBM System x	5463	AC1	7595
China Warranty	5463	AC1	7599
Primary Array 9 HDDs	5463	AC1	7664
Grouped Product	5463	AC1	7830
Customer Solution Center Services	5463	AC1	7831
e1350 Special Bid Solution Component	5463	AC1	7929
No HDD Selected	5463	AC1	8026
Consolidate Shipment	5463	AC1	8031

e1350 Solution Component	5463	AC1	8034
Compute Node	5463	AC1	8036
Management Node	5463	AC1	8037
Storage Node	5463	AC1	8038
TAA Compliant Order	5463	AC1	8067
General Racking Solution	5463	AC1	8072
No SATA HDD Selected	5463	AC1	8080
No 2.5" SAS HDD Selected	5463	AC1	8081
No 3.5" SAS HDD Selected	5463	AC1	8082
No Publications Selected	5463	AC1	8086
Integrate in manufacturing	5463	AC1	8971
Ship Uninstalled (Safety)	5463	AC1	8972
Hot Spare	5463	AC1	9013
Memory Sparing	5463	AC1	9016
Enable Memory Mirroring	5463	AC1	9017
Storage Subsystem ID 01	5463	AC1	9170
Storage Subsystem ID 02	5463	AC1	9171
Storage Subsystem ID 03	5463	AC1	9172
Storage Subsystem ID 04	5463	AC1	9173
Storage Subsystem ID 05	5463	AC1	9174
Storage Subsystem ID 06	5463	AC1	9175
Storage Subsystem ID 07	5463	AC1	9176
Storage Subsystem ID 08	5463	AC1	9177
Storage Subsystem ID 09	5463	AC1	9178
Storage Subsystem ID 10	5463	AC1	9179
Storage Subsystem ID 11	5463	AC1	9180
Storage Subsystem ID 12	5463	AC1	9181
Storage Subsystem ID 13	5463	AC1	9182
Storage Subsystem ID 14	5463	AC1	9183
Storage Subsystem ID 15	5463	AC1	9184
Storage Subsystem ID 16	5463	AC1	9185
Storage Subsystem ID 17	5463	AC1	9186
Storage Subsystem ID 18	5463	AC1	9187
Storage Subsystem ID 19	5463	AC1	9188
Storage Subsystem ID 20	5463	AC1	9189
Preload Specify	5463	AC1	9200
Windows Specify	5463	AC1	9201
Red Hat Specify	5463	AC1	9202
SuSE Specify	5463	AC1	9203
Drop-in-the-Box Specify	5463	AC1	9205
No Preload Specify	5463	AC1	9206
VMware Specify	5463	AC1	9207
Preload by Hardware Feature Specify	5463	AC1	9220
Primary Array 10 HDDs	5463	AC1	9714
Primary Array 11 HDDs	5463	AC1	9715
Software Application (Not Preinstalled) Specify	5463	AC1	A0UF
InfoSphere-BWA R2 Solution Code Mfg Instruction	5463	AC1	A0ZZ
Advanced Grouping	5463	AC1	A102
System x Cluster Upgrade	5463	AC1	A103
IBM Integrated Management Module Advanced Upgrade	5463	AC1	A1ML
10A/250V C13 to NEMA 6-15P 2.8m line cord	5463	AC1	A1RF
5710 Solution	5463	AC1	A2B8
Label KC	5463	AC1	A2CM
Intel x520 Dual Port 10GbE SFP+ Adapter for IBM System x	5463	AC1	A2EC
BCFC for SCEntry Solution	5463	AC1	A2EE
IBM Blank USB Memory Key for VMware ESXi Downloads	5463	AC1	A2G0
BladeCenter Foundation for Cloud	5463	AC1	A2HM
Primary Array - RAID 0	5463	AC1	A2K6
Primary Array - RAID 1	5463	AC1	A2K7
Primary Array - RAID 1E	5463	AC1	A2K8
Primary Array - RAID 5	5463	AC1	A2K9
Primary Array - RAID 6	5463	AC1	A2KA
Primary Array - RAID 10	5463	AC1	A2KB
Secondary Array - RAID 0	5463	AC1	A2KF
Secondary Array - RAID 1	5463	AC1	A2KG
Secondary Array - RAID 5	5463	AC1	A2KJ
Secondary Array - RAID 6	5463	AC1	A2KK
Secondary Array - RAID 10	5463	AC1	A2KL
Broadcom NetXtreme I Quad Port GbE Adapter for IBM System x	5463	AC1	A2V3
Broadcom NetXtreme I Dual Port GbE Adapter for IBM System x	5463	AC1	A2V4
Broadcom NetXtreme I Quad Port GbE Adapter - 2U			

Bracket	5463	AC1	A2VX
Broadcom NetXtreme I Dual Port GbE Adapter - 2U Bracket	5463	AC1	A2VY
IBM Smart Analytics 5700	5463	AC1	A2VZ
2U bracket for Emulex 16Gb FC Single-port HBA for System x	5463	AC1	A2W1
2U bracket for Emulex 16Gb FC Dual-port HBA for System x	5463	AC1	A2W2
Emulex 16Gb FC Single-port HBA for IBM System x	5463	AC1	A2W5
Emulex 16Gb FC Dual-port HBA for IBM System x	5463	AC1	A2W6
No Power Cord Validation	5463	AC1	A2X0
2U Bracket for Brocade 16Gb FC Single-port HBA for IBM System x	5463	AC1	A2XS
2U Bracket for Brocade 16Gb FC Dual-port HBA for IBM System x	5463	AC1	A2XT
Brocade 16Gb FC Single-port HBA for IBM System x	5463	AC1	A2XU
Brocade 16Gb FC Dual-port HBA for IBM System x	5463	AC1	A2XV
IBM Smart Analytics System 5710 R2	5463	AC1	A35Q
System x Integrated Offering for Cloud	5463	AC1	A39S
IBM Integrated Platform HPC Solution	5463	AC1	A3BA
IBM GNRx Solution	5463	AC1	A3BB
IBM Netezza® Network Analytics Accelerator (NAA)	5463	AC1	A3BC
IBM BigInsights™ Integrated Cluster	5463	AC1	A3BD
0.6m IBM HD-miniSAS to miniSAS SAS Cable	5463	AC1	A3HW
1.5m IBM HD-miniSAS to miniSAS SAS Cable	5463	AC1	A3HX
3m IBM HD-miniSAS to miniSAS SAS Cable	5463	AC1	A3HY
6m IBM HD-miniSAS to miniSAS SAS Cable	5463	AC1	A3HZ
QLogic 16Gb FC Single-port HBA for IBM System x	5463	AC1	A3KW
QLogic 16Gb FC Dual-port HBA for IBM System x	5463	AC1	A3KX
2U Bracket for QLogic 16Gb FC Single-port HBA	5463	AC1	A3KY
2U Bracket for QLogic 16Gb FC Dual-port HBA	5463	AC1	A3KZ
Qlogic 8200 Dual Port 10GbE SFP+ VFA for IBM System x	5463	AC1	A3MR
2U Bracket for Qlogic 8200 Dual Port 10GbE SFP+ VFA	5463	AC1	A3MS
Qlogic 8200 VFA FCoE/iSCSI License for IBM System x (FoD)	5463	AC1	A3MT
Digital Analytics on Premise for Netezza	5463	AC1	A3MU
Mellanox ConnectX-3 10 GbE Adapter for IBM System x	5463	AC1	A3PM
Mellanox ConnectX-3 40GbE / FDR IB VPI Adapter for IBM System x	5463	AC1	A3PN
3U Bracket for Mellanox ConnectX-3 FDR VPI IB/E Adapter	5463	AC1	A3WF
3U Bracket for Mellanox ConnectX-3 10 GbE Adapter	5463	AC1	A3WG
NVIDIA Quadro K600	5463	AC1	A3WH
N2215 SAS/SATA HBA for IBM System x	5463	AC1	A3YY
ServerRAID M5210 SAS/SATA Controller for IBM System x	5463	AC1	A3YZ
ServerRAID M5200 Series 1GB Cache/RAID 5 Upgrade for IBM Systems	5463	AC1	A3Z0
ServerRAID M5200 Series 1GB Flash/RAID 5 Upgrade for IBM Systems	5463	AC1	A3Z1
ServerRAID M5200 Series 2GB Flash/RAID 5 Upgrade for IBM Systems	5463	AC1	A3Z2
ServerRAID M5200 Series 4GB Flash/RAID 5 Upgrade for IBM Systems	5463	AC1	A3Z3
ServerRAID M5200 Series RAID 6 Upgrade for IBM Systems-FoD	5463	AC1	A3Z5
ServerRAID M5200 Series Zero Cache/RAID 5 Upgrade for IBM Systems-FoD	5463	AC1	A3Z6
ServerRAID M5200 Series Performance Accelerator for IBM Systems-FoD	5463	AC1	A3Z7
ServerRAID M5200 Series SSD Caching Enabler for IBM Systems-FoD	5463	AC1	A3Z8
Intel X540 ML2 Dual Port 10GbE SFP+ Adapter for IBM System x	5463	AC1	A40P
Emulex VFA5 ML2 Dual Port 10GbE SFP+ Adapter for IBM System x	5463	AC1	A40Q
Intel I350-T4 ML2 Quad Port GbE Adapter for IBM System x	5463	AC1	A40R
Broadcom NetXtreme II ML2 Dual Port 10GbE SFP+ Adapter for IBM System x	5463	AC1	A40S



Broadcom NetXtreme II ML2 Dual Port 10GbE SFP+ for IBM System x	5463	AC1	A40T
ServerRAID M1215 SAS/SATA Controller for IBM System x	5463	AC1	A45W
Flex SAP/BWA	5463	AC1	A463
Capacity Scheduling Service - Indirect	5463	AC1	A46A
Custom SLA Scheduling Service - Indirect	5463	AC1	A46B
Super Cap Cable 925mm for ServRAID M5200 Series Flash	5463	AC1	A47F
Populate and Boot From Rear Drives	5463	AC1	A483
Emulex VFA5 ML2 FCoE/iSCSI License for IBM System x (FoD)	5463	AC1	A4NZ
IBM Application Ready Solutions	5463	AC1	A4P3
IBM 300GB 10K 6Gbps SAS 2.5" G3HS HDD	5463	AC1	A4TL
IBM 600GB 10K 6Gbps SAS 2.5" G3HS HDD	5463	AC1	A4TM
IBM 900GB 10K 6Gbps SAS 2.5" G3HS HDD	5463	AC1	A4TN
IBM 1.2TB 10K 6Gbps SAS 2.5" G3HS HDD	5463	AC1	A4TP
IBM 300GB 15K 6Gbps SAS 2.5" G3HS HDD	5463	AC1	A4TR
IBM 600GB 15K 6Gbps SAS 2.5" G3HS HDD	5463	AC1	A4TS
IBM 500GB 7.2K 6Gbps NL SAS 2.5" G3HS HDD	5463	AC1	A4TT
IBM 1TB 7.2K 6Gbps NL SAS 2.5" G3HS HDD	5463	AC1	A4TU
IBM 500GB 7.2K 6Gbps NL SATA 2.5" G3HS HDD	5463	AC1	A4TW
IBM 1TB 7.2K 6Gbps NL SATA 2.5" G3HS HDD	5463	AC1	A4TX
S3700 400GB SATA 2.5" MLC G3HS Enterprise SSD for IBM System x	5463	AC1	A4U4
IBM 800GB SAS 2.5" MLC G3HS Enterprise SSD	5463	AC1	A4UC
UM KVM Module VGA+SD Dual RJ45	5463	AC1	A4X4
Broadcom NetXtreme Dual Port 10GbE SFP+ Adapter for IBM System x	5463	AC1	A4Z6
2U Bracket for Broadcom NetXtreme Dual Port 10GbE SFP+ Adapter	5463	AC1	A52A
Intel I350-T2 2xGbE BaseT Adapter for IBM System x	5463	AC1	A56L
Intel I350-T4 4xGbE BaseT Adapter for IBM System x	5463	AC1	A56M
IBM 480GB SATA 2.5" MLC G3HS Enterprise value SSD	5463	AC1	A579
IBM System x3550 M5 8x 2.5" Base Chassis	5463	AC1	A58X
IBM System x3550 M5 10x 2.5" Base Chassis	5463	AC1	A58Y
IBM System x3550 M5 4x 3.5" Base Chassis	5463	AC1	A58Z
2.5" HDD Filler	5463	AC1	A590
2.5" 1x2 HDD Filler for empty bay	5463	AC1	A592
3.5" HDD Filler	5463	AC1	A593
3.5" SS HDD Filler	5463	AC1	A594
ODD Filler	5463	AC1	A595
PSU BLANK	5463	AC1	A596
LCD OP Cable	5463	AC1	A597
8x2.5 Bezel without LCD	5463	AC1	A598
Buterfly 2x LP Bracket	5463	AC1	A599
Buterfly LP+FHHL Bracket	5463	AC1	A59A
Riser1, LP Bracket	5463	AC1	A59B
Riser1 ML Bracket	5463	AC1	A59C
FAN FILLER	5463	AC1	A59D
IBM System x3550 M5 Label GMB	5463	AC1	A59E
System Documentation and Software-US English	5463	AC1	A59F
IBM System x3550 M5 Planar	5463	AC1	A59V
System x3550 M5 4x 2.5" HS HDD Kit	5463	AC1	A59W
System x3550 M5 4x 2.5 SS HDD Kit, Non-Raid	5463	AC1	A59Y
System x3550 M5 10x 2.5" HS HDD Kit	5463	AC1	A5A0
System x3550 M5 4x 3.5" HS HDD Kit	5463	AC1	A5A4
System x3550 M5 4x 3.5" SS HDD Kit, Non-Raid	5463	AC1	A5A5
System x3550 M5 4x 2.5 SS HDD Kit, HW RAID	5463	AC1	A5A6
System x3550 M5 4x 3.5" SS HDD Kit, HW RAID	5463	AC1	A5A8
System x Advanced LCD Light Path Kit	5463	AC1	A5AB
System x3550 M5 PCIe Riser 2, 1 CPU (2xLP,LP x8 CPU0 + LP x8 CPU0)	5463	AC1	A5AC
System x3550 M5 PCIe Riser 2, 1-2 CPU (FHHL x16 CPU1 + LP x16 CPU0)	5463	AC1	A5AD
System x3550 M5 PCIe Riser 2, 1 CPU (FHHL x8 CPU0 +LP x8 CPU0)	5463	AC1	A5AE
System x3550 M5 PCIe Riser 2, 1-2 CPU (LP x16 CPU1 + LP x16 CPU0)	5463	AC1	A5AF
System x3550 M5 PCIe Riser 1 (1x LP x16 CPU0)	5463	AC1	A5AG
System x3550 M5 PCIe Riser 1 (1x ML2 x16 CPU0)	5463	AC1	A5AH
Rear PCI Filler	5463	AC1	A5AM
ML2 Bracket, RJ45x4	5463	AC1	A5AQ
ML2 Bracket, RJ45x2	5463	AC1	A5AR

ML2 Bracket for Emulex VFA5 ML2 Dual Port 10GbE SFP+ Adapter	5463	AC1	A5AS
ML2 Bracket for Broadcom NetXtreme II ML2 Dual Port 10GbE SFP+	5463	AC1	A5AT
GPU Power Cable	5463	AC1	A5AU
IBM System x3550 M5 WW Packaging	5463	AC1	A5AW
8GB TruDDR4 Memory (1Rx4, 1.2V) PC4-17000 CL15 2133MHz LP RDIMM	5463	AC1	A5B5
4GB TruDDR4 Memory (1Rx8, 1.2V) PC4-17000 CL15Hz 2133MHz LP RDIMM	5463	AC1	A5B6
16GB TruDDR4 Memory (2Rx4, 1.2V) PC4-17000 CL15Hz 2133MHz LP RDIMM	5463	AC1	A5B7
8GB TruDDR4 Memory (2Rx8, 1.2V) PC4-17000 CL15Hz 2133MHz LP RDIMM	5463	AC1	A5B8
32GB TruDDR4 Memory (4Rx4, 1.2V) PC417000 CL15 2133MHz LP LRDIMM	5463	AC1	A5B9
Intel Xeon Processor E5-2620 v3 6C 2.4GHz 15MB Cache 1866MHz 85W	5463	AC1	A5BC
Intel Xeon Processor E5-2630 v3 8C 2.4GHz 20MB Cache 1866MHz 85W	5463	AC1	A5BD
Intel Xeon Processor E5-2640 v3 8C 2.6GHz 20MB Cache 1866MHz 90W	5463	AC1	A5BE
Intel Xeon Processor E5-2603 v3 6C 1.6GHz 15MB Cache 1600MHz 85W	5463	AC1	A5BF
Intel Xeon Processor E5-2609 v3 6C 1.9GHz 15MB Cache 1600MHz 85W	5463	AC1	A5BG
Intel Xeon Processor E5-2650 v3 10C 2.3GHz 25MB Cache 2133MHz 105W	5463	AC1	A5BH
Intel Xeon Processor E5-2670 v3 12C 2.3GHz 30MB Cache 2133MHz 120W	5463	AC1	A5BK
Intel Xeon Processor E5-2680 v3 12C 2.5GHz 30MB Cache 2133MHz 120W	5463	AC1	A5BL
Intel Xeon Processor E5-2690 v3 12C 2.6GHz 30MB Cache 2133MHz 135W	5463	AC1	A5BM
Intel Xeon Processor E5-2630L v3 8C 1.8GHz 20MB Cache 1866MHz 55W	5463	AC1	A5BN
System x Gen-II Universal Slides kit	5463	AC1	A5FW
Broadcom NetXtreme 2x10GbE BaseT Adapter for IBM System x	5463	AC1	A5GZ
2U Bracket for Broadcom NetXtreme 2x10GbE BaseT Adapter	5463	AC1	A5H0
Server RAID M1200 Zero Cache/RAID 5 Upgrade for IBM Systems F0D	5463	AC1	A5H5
Ultrastim 9.5mm SATA DVD-ROM	5463	AC1	A5KG
Ultrastim 9.5mm SATA Multi Burner	5463	AC1	A5KH
N2225 SAS/SATA HBA for IBM System x	5463	AC1	A5M0
N2226 SAS/SATA HBA for IBM System x	5463	AC1	A5M1
Server RAID M5225-2GB SAS/SATA Controller for IBM System x	5463	AC1	A5ND
2U bracket for N2225 SAS/SATA HBA	5463	AC1	A5Q6
IBM 32GB Enterprise value USB Memory Key	5463	AC1	A5R7
IBM 2TB 7.2K 6Gbps NL SATA 3.5" G2HS 512e HDD	5463	AC1	A5VD
IBM 2TB 7.2K 6Gbps NL SATA 3.5" G2SS 512e HDD	5463	AC1	A5VE
IBM 3TB 7.2K 6Gbps NL SATA 3.5" G2HS 512e HDD	5463	AC1	A5VF
IBM 3TB 7.2K 6Gbps NL SATA 3.5" G2SS 512e HDD	5463	AC1	A5VG
IBM 4TB 7.2K 6Gbps NL SATA 3.5" G2HS 512e HDD	5463	AC1	A5VH
IBM 4TB 7.2K 6Gbps NL SATA 3.5" G2SS 512e HDD	5463	AC1	A5VJ
IBM 5TB 7.2K 6Gbps NL SATA 3.5" G2HS 512e HDD	5463	AC1	A5VK
IBM 5TB 7.2K 6Gbps NL SATA 3.5" G2SS 512e HDD	5463	AC1	A5VL
IBM 6TB 7.2K 6Gbps NL SATA 3.5" G2HS 512e HDD	5463	AC1	A5VM
IBM 6TB 7.2K 6Gbps NL SATA 3.5" G2SS 512e HDD	5463	AC1	A5VN
IBM 2TB 7.2K 12Gbps NL SAS 3.5" G2HS 512e HDD	5463	AC1	A5VP
IBM 4TB 7.2K 12Gbps NL SAS 3.5" G2HS 512e HDD	5463	AC1	A5VQ
IBM 6TB 7.2K 12Gbps NL SAS 3.5" G2HS 512e HDD	5463	AC1	A5VR
IBM 2TB 7.2K 12Gbps NL SAS 3.5" G2HS 512e SED	5463	AC1	A5VS
IBM 4TB 7.2K 12Gbps NL SAS 3.5" G2HS 512e SED	5463	AC1	A5VT
IBM 6TB 7.2K 12Gbps NL SAS 3.5" G2HS 512e SED	5463	AC1	A5VU
System Level code	5463	AC1	ARZ6
ML2 Bracket for Intel I350-T4 ML2 Quad Port GbE Adapter	5463	AC1	ARZ7
Intel Xeon Processor E5-2699 v3 18C 2.3GHz 45MB Cache 2133MHz 145W	5463	AC1	ARZ8
IBM 960GB SATA 2.5" MLC G3HS Entry SSD	5463	AC1	AS0J
2U bracket for x2 mini-SAS HD low			

profile-external-storage adapters	5463	AC1	AS3L
IBM 960GB SATA 2.5" MLC G3SS Entry SSD	5463	AC1	AS5Z
Essential Package	5463	AC1	AS66
Enhanced Package	5463	AC1	AS67
Elite Package	5463	AC1	AS68

The following are features already announced for the 2583, 3837, 5455, 5457, 5458, 5460, 5463, 5466, 7143, 7147, 7158, 7160, 7382, 7383, 7912, 7914, 7915, 8722, 8752 machine types:

Description	MT	Model	Feature
2583-AC1	2583	AC1	
3837-AC1	3837	AC1	
5455-AC1	5455	AC1	
5457-AC1	5457	AC1	
5458-AC1	5458	AC1	
5460-AC1	5460	AC1	
5463-AC1	5463	AC1	
5466-AC1	5466	AC1	
7143-AC1	7143	AC1	
7147-AC1	7147	AC1	
7158-AC1	7158	AC1	
7160-AC1	7160	AC1	
7382-AC1	7382	AC1	
7383-AC1	7383	AC1	
7912-AC1	7912	AC1	
7914-AC1	7914	AC1	
7915-AC1	7915	AC1	
8722-AC1	8722	AC1	
8752-AC1	8752	AC1	
2U Bracket for Emulex 10GbE Virtual Fabric Adapter for IBM System x	5463	AC1	9297
2U Bracket for Emulex 10GbE Virtual Fabric Adapter for IBM System x	5466	AC1	
System x3550 M5 4x 2.5" HS HDD Kit PLUS	5463	AC1	A59X
System x3550 M5 4x 2.5 SS HDD Kit PLUS, Non-Raid	5463	AC1	A59Z
System x3550 M5 2x 2.5" HS HDD Rear Kit	5463	AC1	A5A2
System x3550 M5 4x 2.5" SS HDD Kit PLUS, HW RAID	5463	AC1	A5A7
System x3550 M5 Thermal Kit	5463	AC1	A5AJ
IBM System x3550 M5 Slide Kit G4	5463	AC1	A5AK
System x Enterprise 1U Cable Management Arm (CMA)	5463	AC1	A5AL
COM Port Bracket	5463	AC1	A5AN
Lockable Front Bezel	5463	AC1	A5AP
System x 550W High Efficiency Platinum AC Power Supply	5463	AC1	A5AX
System x 750W High Efficiency Platinum AC Power Supply	5463	AC1	A5AY
System x 750W High Efficiency Titanium AC Power Supply (200-240V)	5463	AC1	A5AZ
System x 900W High Efficiency Platinum AC Power Supply	5463	AC1	A5B0
Addl Intel Xeon Processor E5-2620 v3 6C 2.4GHz 15MB 1866MHz 85W	5463	AC1	A5BS
Addl Intel Xeon Processor E5-2630 v3 8C 2.4GHz 20MB 1866MHz 85W	5463	AC1	A5BT
Addl Intel Xeon Processor E5-2640 v3 8C 2.6GHz 20MB 1866MHz 90W	5463	AC1	A5BU
Addl Intel Xeon Processor E5-2603 v3 6C 1.6GHz 15MB 1600MHz 85W	5463	AC1	A5BV
Addl Intel Xeon Processor E5-2609 v3 6C 1.9GHz 15MB 1600MHz 85W	5463	AC1	A5BW
Addl Intel Xeon Processor E5-2650 v3 10C 2.3GHz 25MB 2133MHz 105W	5463	AC1	A5BX
Addl Intel Xeon Processor E5-2670 v3 12C 2.3GHz 30MB 2133MHz 120W	5463	AC1	A5BZ
Addl Intel Xeon Processor E5-2680 v3 12C 2.5GHz 30MB 2133MHz 120W	5463	AC1	A5C0
Addl Intel Xeon Processor E5-2690 v3 12C 2.6GHz 30MB 2133MHz 135W	5463	AC1	A5C1
Addl Intel Xeon Processor E5-2630L v3 8C 1.8GHz 20MB 1866MHz 55W	5463	AC1	A5C2
Mellanox ConnectX-3 Pro ML2 2x40GbE/FDR VPI			

Adapter for IBM System x Mellanox ConnectX-3 Pro ML2 2x40GbE/FDR VPI	3837	AC1	A5RK
Adapter for IBM System x 2U Bracket for Mellanox CX3-Pro ML2 2x40/10GbE/FDR/QDR IB VPI	8752	AC1	
IBM SKLM for System x w/SEDs - FoD per Install w/1Yr S and S	8752	AC1	A5RL
64GB TruDDR4 Memory (4Rx4,1.2V) PC4-17000 CL15 2133MHZ LP LRDIMM	5463	AC1	A5U1
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	5463	AC1	A5UK
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	2583	AC1	A5UT
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	3837	AC1	
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	5455	AC1	
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	5458	AC1	
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	5460	AC1	
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	5466	AC1	
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	7143	AC1	
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	7147	AC1	
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	7158	AC1	
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	7160	AC1	
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	7382	AC1	
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	7912	AC1	
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	7914	AC1	
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	7915	AC1	
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	8752	AC1	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	2583	AC1	A5UU
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	3837	AC1	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	5455	AC1	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	5458	AC1	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	5460	AC1	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	5466	AC1	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	7143	AC1	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	7147	AC1	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	7158	AC1	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	7160	AC1	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	7382	AC1	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	7912	AC1	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	7914	AC1	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	7915	AC1	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	8752	AC1	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	2583	AC1	A5UV
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	3837	AC1	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM			

System x (FoD)	5455	AC1	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	5458	AC1	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	5460	AC1	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	5466	AC1	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	7143	AC1	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	7147	AC1	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	7158	AC1	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	7160	AC1	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	7382	AC1	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	7912	AC1	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	7914	AC1	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	7915	AC1	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	8752	AC1	
Add Intel Xeon Processor E5-2699 v3 18C 2.3GHz 45MB 2133MHz 145W	5463	AC1	ARZ9
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	2583	AC1	AS3M
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	5455	AC1	
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	5458	AC1	
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	5460	AC1	
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	5466	AC1	
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	7143	AC1	
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	7147	AC1	
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	7158	AC1	
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	7160	AC1	
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	7382	AC1	
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	7912	AC1	
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	7914	AC1	
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	7915	AC1	
IBM SKLM for System x w/SEDs - FoD per Install w/3Yr S and S	5463	AC1	AS6C

The following are features already announced for the 2583, 3331, 3837, 5455, 5457, 5458, 5460, 5466, 7143, 7147, 7158, 7160, 7382, 7383, 7912, 7914, 7915, 8722, 8752 machine types:

Description	MT	Model	Feature
2U Bracket for Emulex 10GbE Virtual Fabric Adapter for IBM System x	5466	MC1	9297
System x3550 M5 4x 2.5" HS HDD Kit PLUS	3331	HC1	A59X
System x3550 M5 4x 2.5" SS HDD Kit PLUS, Non-Raid	3331	HC1	A59Z
System x3550 M5 2x 2.5" HS HDD Rear Kit	3331	HC1	A5A2
System x3550 M5 4x 2.5" SS HDD Kit PLUS, HW RAID	3331	HC1	A5A7
System x3550 M5 Thermal Kit	3331	HC1	A5AJ
IBM System x3550 M5 Slide Kit G4	3331	HC1	A5AK
System x Enterprise 1U Cable Management Arm (CMA)	3331	HC1	A5AL
COM Port Bracket	3331	HC1	A5AN

Lockable Front Bezel	3331	HC1	A5AP
System x 550W High Efficiency Platinum AC Power Supply	3331	HC1	A5AX
System x 750W High Efficiency Platinum AC Power Supply	3331	HC1	A5AY
System x 750W High Efficiency Titanium AC Power Supply (200-240V)	3331	HC1	A5AZ
System x 900W High Efficiency Platinum AC Power Supply	3331	HC1	A5B0
Addl Intel Xeon Processor E5-2620 v3 6C 2.4GHz 15MB 1866MHz 85W	3331	HC1	A5BS
Addl Intel Xeon Processor E5-2630 v3 8C 2.4GHz 20MB 1866MHz 85W	3331	HC1	A5BT
Addl Intel Xeon Processor E5-2640 v3 8C 2.6GHz 20MB 1866MHz 90W	3331	HC1	A5BU
Addl Intel Xeon Processor E5-2603 v3 6C 1.6GHz 15MB 1600MHz 85W	3331	HC1	A5BV
Addl Intel Xeon Processor E5-2609 v3 6C 1.9GHz 15MB 1600MHz 85W	3331	HC1	A5BW
Addl Intel Xeon Processor E5-2650 v3 10C 2.3GHz 25MB 2133MHz 105W	3331	HC1	A5BX
Addl Intel Xeon Processor E5-2670 v3 12C 2.3GHz 30MB 2133MHz 120W	3331	HC1	A5BZ
Addl Intel Xeon Processor E5-2680 v3 12C 2.5GHz 30MB 2133MHz 120W	3331	HC1	A5C0
Addl Intel Xeon Processor E5-2690 v3 12C 2.6GHz 30MB 2133MHz 135W	3331	HC1	A5C1
Addl Intel Xeon Processor E5-2630L v3 8C 1.8GHz 20MB 1866MHz 55W	3331	HC1	A5C2
Mellanox ConnectX-3 Pro ML2 2x40GbE/FDR VPI Adapter for IBM System x	3331	HC1	A5RK
UltraSlim Enhanced SATA DVD-ROM	3331	HC1	A5KG
UltraSlim Enhanced SATA Multi-Burner	3331	HC1	A5KH
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	3331	HC1	A5UT
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	3331	HC1	A5UV
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	3331	HC1	A5UU
Mellanox ConnectX-3 Pro ML2 2x40GbE/FDR VPI Adapter for IBM System x	3837	AC2 AC3 AC4 AC5 AC6 AC7 MC1 MC2	A5RK
Mellanox ConnectX-3 Pro ML2 2x40GbE/FDR VPI Adapter for IBM System x	8752	MC1	
2U Bracket for Mellanox CX3-Pro ML2 2x40/10GbE/FDR/QDR IB VPI	8752	MC1	A5RL
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	2583	MC1	A5UT
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	3837	AC2 AC3 AC4 AC5 AC6 AC7 MC1 MC2	
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	5455	MC1	
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	5458	MC1	
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	5460	MC1	
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	5466	MC1	
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	7143	MC1	

Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	7147	MC1	
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	7158	MC1	
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	7160	MC1	
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	7382	MC1	
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	7912	MC1	
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	7914	MC1	
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	7915	MC1	
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	8752	MC1	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	2583	MC1	A5UU
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	3837	AC2 AC3 AC4 AC5 AC6 AC7 MC1 MC2	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	5455	MC1	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	5458	MC1	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	5460	MC1	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	5466	MC1	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	7143	MC1	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	7147	MC1	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	7158	MC1	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	7160	MC1	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	7382	MC1	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	7912	MC1	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	7914	MC1	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	7915	MC1	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	8752	MC1	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	2583	MC1	A5UV
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	3837	AC2 AC3 AC4 AC5 AC6 AC7 MC1 MC2	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	5455	MC1	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	5458	MC1	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	5460	MC1	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	5466	MC1	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	7143	MC1	

Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	7147	MC1	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	7158	MC1	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	7160	MC1	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	7382	MC1	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	7912	MC1	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	7914	MC1	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	7915	MC1	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	8752	MC1	
Addl Intel Xeon Processor E5-2699 v3 18C 2.3GHz 45MB 2133MHz 145W	3331	HC1	ARZ9
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	2583	MC1	AS3M
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	5455	MC1	
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	5458	MC1	
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	5460	MC1	
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	5466	MC1	
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	7143	MC1	
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	7147	MC1	
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	7158	MC1	
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	7160	MC1	
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	7382	MC1	
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	7912	MC1	
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	7914	MC1	
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	7915	MC1	
System x Advanced LCD Light path Kit	3331	HC1	AS6U
System x3550 M5 PCIe Riser 1 (1x LP x16 CPU0)	3331	HC1	AS6V
System x3550 M5 PCIe Riser 2, 1 CPU (2xLP, LP x8 CPU0 + LP x8 CPU0)	3331	HC1	AS6W
System x3550 M5 PCIe Riser 1 (1x ML2 x16 CPU0)	3331	HC1	AS6X
System x3550 M5 PCIe Riser 2, 1-2 CPU (LP x16 CPU0 + LP x16 CPU1)	3331	HC1	AS6Y

### Single Entity Offerings (SEOs)

Description	SEO Number
IBM System x3550 M5	5463A2U
	5463B2U
	5463C2U
	5463C4U
	5463D2U
	5463F2U
	5463G2U
	5463H2U
	5463J2U
	5463K2U
	5463L2U
	5463M2U



## Express models

Description	SEO Number
IBM System x3550 M5 Express	5463EAU 5463EBU 5463ECU 5463EDU

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

HIPO feature number	Description
A85L	5463-AC1 Routing Code

Description	Type	Model	Feature	SEO	Part Number
System x3550 M5 Thermal Kit	3331	HC1	A5AJ	00KA059	00KA059
System x3550 M5 Slide Kit G4	3331	HC1	A5AK	00KA606	00KA606
System x Enterprise 1U Cable Management Arm (CMA)	3331	HC1	A5AL	00KA607	00KA607
System x3550 M5 2x 2.5" HS HDD Rear Kit	3331	HC1	A5A2	00KA058	00KA058
System x3550 M5 4x 2.5" HS HDD Kit PLUS	3331	HC1	A59X	00KA055	00KA055
System x3550 M5 4x 2.5" SS HDD Kit PLUS, Non-Raid	3331	HC1	A59Z	00KA056	00KA056
COM Port Bracket	3331	HC1	A5AN	00KA161	00KA161
Lockable Front Bezel	3331	HC1	A5AP	00KA162	00KA162
System x3550 M5 4x 2.5" SS HDD Kit PLUS, HW RAID	3331	HC1	A5A7	00KA060	00KA060
System x 550W High Efficiency Platinum AC Power Supply	3331	HC1	A5AX	00KA094	00KA094
System x 750W High Efficiency Platinum AC Power Supply	3331	HC1	A5AY	00KA096	00KA096
System x 750W High Efficiency Titanium AC Power Supply (200-240V)	3331	HC1	A5AZ	00KA097	00KA097
System x 900W High Efficiency Platinum AC Power Supply	3331	HC1	A5B0	00KA098	00KA098
Intel Xeon Processor E5-2620 v3 6C 2.4GHz 15MB Cache 1866MHz 85W	3331	HC1	A5BS	00KA067	00KA067
Intel Xeon Processor E5-2630 v3 8C 2.4GHz 20MB Cache 1866MHz 85W	3331	HC1	A5BT	00KA068	00KA068
Intel Xeon Processor E5-2640 v3 8C 2.6GHz 20MB Cache 1866MHz 90W	3331	HC1	A5BU	00KA069	00KA069
Intel Xeon Processor E5-2603 v3 6C 1.6GHz 15MB Cache 1600MHz 85W	3331	HC1	A5BV	00KA070	00KA070
Intel Xeon Processor E5-2609 v3 6C 1.9GHz 15MB Cache 1600MHz 85W	3331	HC1	A5BW	00KA071	00KA071
Intel Xeon Processor E5-2650 v3 10C 2.3GHz 25MB Cache 2133MHz 105W	3331	HC1	A5BX	00KA072	00KA072
Intel Xeon Processor E5-2670 v3 12C 2.3GHz 30MB Cache 2133MHz 120W	3331	HC1	A5BZ	00KA074	00KA074
Intel Xeon Processor E5-2680 v3 12C 2.5GHz 30MB Cache 2133MHz 120W	3331	HC1	A5C0	00KA075	00KA075
Intel Xeon Processor E5-2690 v3 12C 2.6GHz 30MB Cache 2133MHz 135W	3331	HC1	A5C1	00KA076	00KA076
Intel Xeon Processor E5-2630L v3 8C 1.8GHz 20MB Cache 1866MHz 55W	3331	HC1	A5C2	00KA077	00KA077
Intel Xeon Processor E5-2699 v3 18C 2.3GHz 45MB Cache 2133MHz 145W	3331	HC1	ARZ9	00KF584	00KF584
UltraSlim Enhanced SATA DVD-ROM	3331	HC1	A5KG	00AM066	00AM066
UltraSlim Enhanced SATA Multi-Burner	3331	HC1	A5KH	00AM067	00AM067
System x3550 M5 PCIe Riser 1	3331	HC1	AS6V	00KA061	00KA061

(1x LP x16 CPU0)							
System x Advanced LCD Lightpath Kit	3331	HC1	AS6U	00KA054	00KA054		
System x3550 M5 PCIe Riser 2, 1 CPU (2xLP, LP x8 CPU0 + LP x8 CPU0)	3331	HC1	AS6W	00KA062	00KA062		
System x3550 M5 PCIe Riser 1 (1x ML2 x16 CPU0)	3331	HC1	AS6X	00KA063	00KA063		
System x3550 M5 PCIe Riser 2, 1-2 CPU (LP x16 CPU0 + LP x16 CPU1)	3331	HC1	AS6Y	00KA066	00KA066		
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	3331	HC1	A5UT	00JY820	00JY820		
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	3331	HC1	A5UV	00JY824	00JY824		
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	3331	HC1	A5UU	00JY830	00JY830		
Mellanox ConnectX-3 Pro ML2 2x40GbE/FDR VPI Adapter for IBM System x	3331	HC1	A5RK	00FP650	00FP650		

## Business Partner information

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

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=114-141>

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## Publications

The following publications and CD-ROMs are shipped with the System x3550 M5.

- *System x3550 M5 Installation and Service Guide* contains an introduction to the computer, installation and setup, installing options, reference information, and problem determination. The installation guide has easy-to-use text and illustrations to enable you to quickly set up your System x3550 M5.
- *Documentation/Installation and Service Guide CD* contains translated versions of the product *Installation and Service Guide*.
- *ServerGuide* contains online publications and drivers to support the System x3550 M5. In addition, it includes a set of easy-to-use utilities to help you install the system using CDs of several popular network operating systems.

**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 publication *System x3550 M5 Installation and Service Guide* in US English and translation versions is available from

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

### Displayable softcopy publications

The product books are offered in displayable softcopy form. The displayable manuals are part of the basic machine-readable material. The files are shipped on CD-ROM. Terms and conditions for use of the machine-readable files are shipped with the files.

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## Services

### Global Technology Services®

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## System x and BladeCenter support services

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

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

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

- **Software technical support**

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For more information, visit

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

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## Technical information

### **Specified operating environment**

#### ***Physical specifications***

System x3550 M5:

	5463A2x	5463B2x
Processor	Xeon E5-2603 v3 (85W)	Xeon E5-2609 v3 (85W)
Internal speed	1.6 GHz	1.9 GHz
External speed	6.4 GTS	6.4 GTS
Number cores	6	6
Number standard	1	1
Maximum	2	2
Cache (full-speed)	15 MB	15 MB
Memory	8 GB ECC 2133 MHz RDIMM	8 GB ECC 2133 MHz RDIMM

RDIMMs	1 x 4 GB (1Rx4,1.2V)	1 x 4 GB (1Rx4,1.2V)
DIMM sockets	24	24
Capacity <sup>4</sup>	1536 GB	1536 GB
Video	SVGA	SVGA
Memory	16 MB	16 MB
HDD controller	SAS/SATA	SAS/SATA
Channels	8	8
Connector internal	2	2
RAID controller <sup>10</sup>	M1215	M1215
HDD		
Total bays	9 (with upgrade)	5
5.25 slim	1	1
3.5-in tape	0	0
Simple-swap (3.5-in)	0	4
Simple-swap (2.5-in)	8 (with upgrade) <sup>5</sup>	0
Internal capacity	7.68 TB (with upgrade)	24 TB <sup>6</sup>
Bays available	5 standard	5 standard
5.25 slim	1	1
3.5-in tape	0	0
Simple-swap (2.5-in)	4 standard <sup>7</sup>	4
Simple-swap (2.5-in)	4	0
Total PCI Gen3 slots	3 (with upgrade)	3 (with upgrade)
PCI-E Gen3 x16 LP	1 standard	1 standard
PCI-E Gen3 x8 or x16 LP/LP	2 (with upgrade)	2 (with upgrade)
Slots available <sup>9</sup>	1	1
PCI-E Gen3 x16 LP	1	1
System management	Standard (dedicated port)	Standard (dedicated port)
Advanced LCD Lightpath	optional <sup>11</sup>	optional <sup>11</sup>
Ethernet controller	Four 1 Gb	Four 1 Gb
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

#### 5463C2x

Processor	Xeon E5-2620 v3 (85w)
Internal speed	2.4 GHz
External speed	8.0 GTS
Number cores	6
Number standard	1
Maximum	2
Cache (full-speed)	15 MB
Memory	16 GB ECC 2133 MHz RDIMM
RDIMMs	1 x 16 GB (2Rx4,1.2V)
DIMM sockets	24
Capacity <sup>4</sup>	1536 GB
Video	SVGA
Memory	16 MB
HDD controller	SAS/SATA
Channels	8
Connector internal	2
RAID controller <sup>10</sup>	M1215
HDD <sup>8</sup>	
Total bays	9 (with upgrade)
5.25 slim	1
3.5-in tape	0
Hot-swap (3.5-in)	0
Hot-swap (2.5-in)	8 (with upgrade) <sup>8</sup>
Internal capacity	9.6 TB (with upgrade)
Bays available	5 standard
5.25 slim	1
3.5-in tape	0
Hot-swap (3.5-in)	0

Hot-swap (2.5-in)	4 standard <sup>7</sup>	
Total PCI Gen3 slots	3 (with upgrade)	
PCI-E Gen3 x16 LP	1 standard	
PCI-E Gen3 x8 or x16 LP/LP	2 (with upgrade)	
Slots available <sup>9</sup>	1	
PCI-E Gen3 x16 LP	1	
System management	Standard (dedicated port)	
Advanced LCD Lightpath	optional <sup>11</sup>	
Ethernet controller	Four 1 Gb	
Optical drive (SATA)	Optional	
Power supply	550 w	
Number standard	1	
Maximum	2	
Hot-swap	Yes	
Redundant power	Optional	
Auto restart	Yes	
	5463C4x	5463D2x
Processor	Xeon E5-2620 v3 (85w)	Xeon E5-2630 v3 (85w)
Internal speed	2.4 GHz	2.4 GHz
External speed	8.0 GTS	8.0 GTS
Number cores	6	8
Number standard	1	1
Maximum	2	2
Cache (full-speed)	15 MB	20 MB
Memory	16 GB ECC 2133 MHz RDIMM	16 GB ECC 2133 MHz RDIMM
RDIMMs	1 x 16 GB (2Rx4,1.2V))	1 x 16 GB (2Rx4,1.2V))
DIMM sockets	24	24
Capacity <sup>4</sup>	1536 GB	1536 GB
Video	SVGA	SVGA
Memory	16 MB	16 MB
HDD controller	SAS/SATA	SAS/SATA
Channels	8	8
connector internal	2	2
RAID controller <sup>10</sup>	M1215	M5210 + 1GB Flash
HDD		
Total bays	5	9 (with upgrade)
5.25 slim	1	1
3.5-in tape	0	0
Hot-swap (3.5-in)	4	0
Hot-swap (2.5-in)	0	8 (with upgrade) <sup>5</sup>
Internal capacity	24 TB <sup>6</sup>	9.6 TB (with upgrade)
Bays available	5 standard	5 standard
5.25 slim	1	1
3.5-in tape	0	0
Hot-swap (3.5-in)	4	0
Hot-swap (2.5-in)	0	4 standard <sup>4</sup>
Total PCI Gen3 slots	3 (with upgrade)	3 (with upgrade)
PCI-E Gen3 x16 LP	1	1
PCI-E Gen3 x8 or x16 LP/LP	2 (with upgrade)	2 (with upgrade)
Slots available <sup>9</sup>	1	1
PCI-E Gen3 x16 LP	1	1
System management	Standard (dedicated port)	Standard (dedicated port)
Advanced LCD Lightpath	optional <sup>11</sup>	optional <sup>11</sup>
Ethernet controller	Four 1 Gb	Four 1 Gb
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
	5463F2x	5463G2x
Processor	Xeon E5-2640 v3 (90w)	Xeon E5-2650 v3 (105w)

Internal speed	2.6 GHz	2.3 GHz
External speed	8.0 GTS	9.6 GTS
Number cores	8	10
Number standard	1	1
Maximum	2	2
Cache (full-speed)	20 MB	25 MB
Memory	16 GB ECC 2133 MHz RDIMM	16 GB ECC 2133 MHz RDIMM
RDIMMs	1 x 16 GB (2Rx4,1.2V)	1 x 16 GB (2Rx4,1.2V)
DIMM sockets	24	24
Capacity <sup>4</sup>	1536 GB	1536 GB
Video	SVGA	SVGA
Memory	16 MB	16 MB
HDD controller	SAS/SATA	SAS/SATA
Channels	8	8
Connector internal	2	2
RAID controller <sup>10</sup>	M5210 + 1 GB Flash	M5210 + 1 GB Flash
HDD		
Total bays	9 (with upgrade)	12 (with upgrade)
5.25 slim	1	0
3.5-in tape	0	0
Hot-swap (3.5-in)	0	0
Hot-swap (2.5-in)	8 (with upgrade) <sup>8</sup>	12 (with upgrade) <sup>12</sup>
Internal capacity	9.6 TB (with upgrade)	14.4 TB (with upgrade)
Bays available	5 standard	10 standard
5.25 slim	1	0
3.5-in tape	0	0
Hot-swap (3.5-in)	0	0
Hot-swap (2.5-in)	4 standard <sup>7</sup>	10 standard <sup>12</sup>
Total PCI Gen3 slots	3 (with upgrade)	3 (with upgrade)
PCI-E Gen3 x16 LP	1	1
PCI-E Gen3 x8 or x16 LP/LP	2 (with upgrade)	2 (with upgrade)
Slots available <sup>9</sup>	1	1
PCI-E Gen3 x16 LP	1	1
System management	Standard (dedicated port)	Standard (dedicated port)
Advanced LCD Lightpath	optional <sup>11</sup>	optional <sup>11</sup>
Ethernet controller	Four 1 Gb	Four 1 Gb
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
	5463H2x	546362x
Processor	Xeon ES-2630L	Xeon E5-2670 v3 (120w)
Internal speed	1.8 GHz	2.3 GHz
External speed	8.0 GTS	9.6 GTS
Number cores	8	12
Number standard	1	1
Maximum	2	2
Cache (full-speed)	20 MB	30 MB
Memory	16 GB ECC 2133 MHz RDIMM	16 GB ECC 2133 MHz RDIMM
RDIMMs	1 x 16 GB (2Rx4,1.2V)	1 x 16 GB (2Rx4,1.2V)
DIMM sockets	24	24
Capacity <sup>4</sup>	1536 GB	1536 GB
Video	SVGA	SVGA
Memory	16 MB	16 MB
HDD controller	SAS/SATA	SAS/SATA
Channels	8	8
Connector internal	2	2
RAID controller <sup>10</sup>	M5210 + 1 GB Flash	M5210 + 2 GB Flash
HDD <sup>8</sup>		
Total bays	9 (with upgrade)	9 (with upgrade)
5.25 slim	1	1
3.5-in tape	0	0
Hot-swap (3.5-in)	0	0

Hot-swap (2.5-in)	8 (with upgrade) <sup>8</sup>	8 (with upgrade) <sup>8</sup>
Internal capacity	9.6 TB (with upgrade)	9.6 TB (with upgrade)
Bays available	5 standard	5 standard
5.25 slim	1	1
3.5-in tape	0	0
Hot-swap (3.5-in)	0	0
Hot-swap (2.5-in)	4 standard <sup>7</sup>	4 standard <sup>7</sup>
Total PCI Gen3 slots	3 (with upgrade)	3 (with upgrade)
PCI-E Gen3 x16 LP	1	1
PCI-E Gen3 x8 or x16 LP/LP	2 (with upgrade)	2 (with upgrade)
Slots available <sup>9</sup>	1	1
PCI-E Gen3 x16 LP	1	1
System management	Standard (dedicated port)	Standard (dedicated port)
Advanced LCD Lightpath	optional <sup>11</sup>	optional <sup>11</sup>
Ethernet controller	Four 1 Gb	Four 1 Gb
Optical drive (SATA)	Optional	Optional
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

5463J2x

5463L2x

Processor	Xeon E5-2680 v3 (120w)	Xeon E5-2690 v3 (135w)
Internal speed	2.5 GHz	2.6 GHz
External speed	9.6 GTS	9.6 GTS
Number cores	12	12
Number standard	1	1
Maximum	2	2
Cache (full-speed)	30 MB	30 MB
Memory	16 GB ECC 2133 MHZ RDIMM	16 GB ECC 2133 MHZ RDIMM
RDIMMs	1 x 16 GB (2Rx4,1.2V)	1 x 16 GB (2Rx4,1.2V)
DIMM sockets	24	24
Capacity <sup>4</sup>	1536 GB	1536 GB
Video	SVGA	SVGA
Memory	16 MB	16 MB
HDD controller	SAS/SATA	SAS/SATA
Channels	8	8
Connector internal	2	2
RAID controller <sup>10</sup>	M5210 + 2 GB Flashash	M5210 (no cache/flash)
HDD <sup>8</sup>		
Total bays	9 (with upgrade)	9 (with upgrade)
5.25 slim	1	1
3.5-in tape	0	0
Hot-swap (3.5-in)	0	0
Hot-swap (2.5-in)	8 (with upgrade) <sup>8</sup>	8 (with upgrade) <sup>8</sup>
Internal capacity	9.6 TB (with upgrade)	9.6 TB (with upgrade)
Bays available	5 standard	5 standard
5.25 slim	1	1
3.5-in tape	0	0
Hot-swap (3.5-in)	0	0
Hot-swap (2.5-in)	4 standard <sup>7</sup>	4 standard <sup>7</sup>
Total PCI Gen3 slots	3 (with upgrade)	3 (with upgrade)
PCI-E Gen3 x16 LP	1	1
PCI-E Gen3 x8 or x16 LP/LP	2 (with upgrade)	2 (with upgrade)
Slots available <sup>9</sup>	1	1
PCI-E Gen3 x16 LP	1	1
System management	Standard (dedicated port)	Standard (dedicated port)
Advanced LCD Lightpath	optional <sup>11</sup>	optional <sup>11</sup>
Ethernet controller	Four 1 Gb	Four 1 Gb
Optical drive (SATA)	Optional	Optional
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
	5463M2x	
Processor	Xeon E5-2699 v3 (145W)	
Internal speed	2.3 GHz	
External speed	9.6 GTS	
Number cores	18	
Number standard	1	
Maximum	2	
Cache (full-speed)	45 MB	
Memory	16 GB ECC 2133 MHz RDIMM	
RDIMMs	1 x 16 GB (2Rx4, 1.2V)	
DIMM sockets	24	
Capacity <sup>4</sup>	1536 GB	
Video	SVGA	
Memory	16 MB	
HDD controller	SAS/SATA	
Channels	8	
Connector internal	2	
RAID controller <sup>10</sup>	M5210	
HDD <sup>8</sup>		
Total bays	9 (with upgrade)	
5.25 slim	1	
3.5-in tape	0	
Hot-swap (3.5-in)	0	
Hot-swap (2.5-in)	8 (with upgrade) <sup>8</sup>	
Internal capacity	9.6 TB (with upgrade)	
Bays available	5 standard	
5.25 slim	1	
3.5-in tape	0	
Hot-swap (3.5-in)	0	
Hot-swap (2.5-in)	4 standard <sup>7</sup>	
Total PCI Gen3 slots	3 (with upgrade)	
PCI-E Gen3 x16 LP	1	
PCI-E Gen3 x8 or x16 LP/LP	2 (with upgrade)	
Slots available <sup>9</sup>	1	
PCI-E Gen3 x16 LP	1	
System management	Standard (dedicated port)	
Advanced LCD Lightpath	optional <sup>11</sup>	
Ethernet controller	Four 1 Gb	
Optical drive (SATA)	Optional	
Power supply	900 W	
Number standard	1	
Maximum	2	
Hot-swap	Yes	
Redundant power	Optional	
Auto restart	Yes	

<sup>4</sup> Maximum of 384 GB by using 24 optional 16 GB RDIMMs, or up to 1.5 TB of memory using twenty-four 64 GB LRDIMMs.

<sup>5</sup> Capacity can be doubled with front 4x 2.5-inch HDD expansion option fitted. Maximum capacity is based on installation of 8x 2.5-inch 960 GB SATA MLC SS MLC SSD HDDs with 4x 2.5-inch HDD expansion fitted.

<sup>6</sup> The standard 3.5-inch system can hold 4x 3.5-inch front HDDs. Maximum capacity is based on installation of 4x 6 TB HDDs.

<sup>7</sup> The standard system can hold four 2.5-inch HS HDDs. Capacity can be doubled with 4x 2.5-inch HDD expansion option fitted.

<sup>8</sup> Maximum capacity is based on installation of 8x 2.5-inch 1.2TB SSD HDDs with 4x 2.5-inch HDD expansion fitted.

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

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



<sup>9</sup> Standard models have 1x PCI-E Gen3 x16 HHL LP slot as standard when 1x processor is fitted. plus 1x dedicated slotless RAID slot.

<sup>10</sup> RAID card is fitted to dedicated slotless RAID slot.

<sup>11</sup> Optional Advanced LCD Lightpath module can be fitted to front.

<sup>12</sup> The high-density 2.5-inch HS system does not support an optical drive. The high-density 2.5-inch HS system holds 10x 2.5-inch front HDDs as standard. Capacity can be further increased by adding rear 2x 2.5-inch HDD kit options, to give maximum:

10x front + 2x rear 2.5-inch HDDs

Maximum capacity is based on installation of 12x 1.2TB HS SSDs with rear 2x 2.5-inch HDD kit options fitted.

## Express models

	5463EAU	5463EBU
Processor	Xeon E5-2609 v3 (85W)	Xeon E5-2620 v3 (85W)
Internal speed	1.9 GHz	2.4 GHz
External speed	6.4 GTS	8.0 GTS
Number cores	6	6
Number standard	1	1
Maximum	2	2
Cache (full-speed)	15 MB	15 MB
Memory	8 GB ECC 2133 MHz RDIMM	16 GB ECC 2133 MHz RDIMM
RDIMMs	1 x 8 GB (1Rx4, 1.2V)	1 x 16 GB (2Rx4, 1.2V)

	5463ECU	5463EDU
Processor	Xeon E5-2640 v3 (90W)	Xeon E5-2650 v3 (105W)
Internal speed	2.6 GHz	2.3 GHz
External speed	8.0 GTS	9.6 GTS
Number cores	8	10
Number standard	1	1
Maximum	2	2
Cache (full-speed)	20 MB	25 MB
Memory	16 GB ECC 2133 MHz RDIMM	16 GB ECC 2133 MHz RDIMM
RDIMMs	1 x 16 GB (2Rx4, 1.2V)	1 x 16 GB (2Rx4, 1.2V)

	5463EEU	5463EFU
Processor	Xeon E5-2620 v3 (85W)	Xeon E5-2650 v3 (105W)
Internal speed	2.4 GHz	2.3 GHz
External speed	8.0 GTS	9.6 GTS
Number cores	6	10
Number standard	1	1
Maximum	2	2
Cache (full-speed)	15 MB	25 MB
Memory	16 GB ECC 2133 MHz RDIMM	16 GB ECC 2133 MHz RDIMM
RDIMMs	2 x 16 GB (2Rx4, 1.2V)	4 x 16 GB (2Rx4, 1.2V)

## Video subsystem

- SVGA compatible video controller (Matrox G200eR2)
- Integrated on Integrated Management Module (IMM2).
- Integrated on planar and connected to the PCI bus.
- DDR4 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)

### Supported video modes

Width	Height	Refresh	Bpp
640	400	60, 72, 75, 85	8, 16, 32
800	600	56, 60, 72, 75, 85	8, 16, 32
1,024	768	60, 70, 75, 85	8, 16, 32
1,152	864	60	8, 16, 32
1,280	1,024	60	8, 16, 32
1,280	1,024	75, 85	8, 16
1,440	900	60	8, 16, 32
1,440	900	75, 85	8, 16
1,600	1,200	60, 65, 70, 75, 85	8, 16
1,680	1,050	60, 75, 85	8, 16

The maximum resolution of the video controller is 1600 x 1200 at 75.

The 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

1U Rack Drawer

- Width: 429 mm (16.9 in.)
- Depth: 734 mm (28.9 in.)
- Height: 43 mm (1.7 in.)
- Weight: (minimum configuration) 12.7 kg (28 lb)
- Weight: (maximum configuration) 15.9 kg (35 lb)

### Approximate shipping dimensions and weight

- Single pack dimensions: (L) 39.37 in. x (W) 23.11 in. x (H) 8.86 in.
- Single pack weight: Max 52.9 lb
- Quantity per pallet: 10
- Pallet load dimensions: (L) 48 in. x (W) 40 in. x (H) 49 in.
- Pallet load weight: 562 lb
- Estimated safe stacking: 2 high

### Electrical

Models with 550 W power supplies:

- 100 - 127 (nominal) V ac; 50 Hz or 60 Hz; 6.5 A
- 200 - 240 (nominal) V ac; 50 Hz or 60 Hz; 3.3 A
- Input kilovolt-amperes (kVA) (approximately):
  - Minimum configuration: 0.14 kVA
  - Maximum configuration: 0.724 kVA

Models with 750 W power supplies:

- 100 - 127 (nominal) V ac; 50 Hz or 60 Hz; 8.6 A
- 200 - 240 (nominal) V ac; 50 Hz or 60 Hz; 4.2 A
  - Minimum configuration: 0.14 kVA
  - Maximum configuration: 0.987 kVA

Models with 900 W power supplies:

- 100 - 127 (nominal) V ac; 50 Hz or 60 Hz; 10.3 A
- 200 - 240 (nominal) V ac; 50 Hz or 60 Hz; 5.0 A
  - Minimum configuration: 0.14 kVA
  - Maximum configuration: 1.188 kVA
- Btu output:
  - Minimum configuration: 460.62 Btu/hr (ac 135 watts)
  - Maximum configuration: 3490 Btu/hr (ac 1023 watts)
- Noise level: 6.6 bels (operating)
- Noise level: 6.4 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.

### **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 5, Class A
- UL/IEC 60950-1
- CSA C22.2 No. 60950-1
- NOM-019
- Argentina IEC60950-1

### **Operating environment**

Power on:

- Temperature: 5°C to 40°C (41°F to 104°F) up to 950 mm (3,117 ft); above 950 m, de-rated maximum air temperature 1°C / 175 m
- Humidity, non-condensing: -12°C dew point (10.4°F) and 8% to 85% relative humidity
- Maximum dew point: 24°C (75°F)
- Maximum altitude: 3,050 m (10,000 ft) and 5°C to 28°C (41°F to 82°F)
- Maximum rate of temperature change: 5°C/hr (41°F/hr) for tape drive, 20°C/hr (68 F/hr) for HDDs

Power off:

- Temperature: 5°C to 45°C (41°F to 113°F)
- Relative humidity: 8% to 85%
- Maximum dew point: 27°C (80.6°F)

Storage (non-operating):

- Temperature: 1°C to 60°C (33.8°F to 140°F)
- Altitude: 3,050 m (10,000 ft)

- Relative humidity: 5% to 80%
- Maximum dew point: 29°C (84.2°F)

Shipment (non-operating):

- Temperature: -40°C to 60°C (-40°F to 140°F)
- Altitude: 10,700 m (35,105 ft)
- Relative humidity: 5% to 100%
- Maximum dew point: 29°C (84.2°F)

### **Attention**

Design to ASHRAE Class A3, ambient of 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.

Specific processors supported environment:

- Processor E5-2699 v3, E5-2698 v3, E5-2697 v3, E5-2690 v3, E5-2667 v3, E5-2643 v3, E5-2637 v3 are not supported with rear HDD installed.
- Processor E5-2699 v3, E5-2698 v3, E5-2697 v3, E5-2667 v3, E5-2643 v3, E5-2637 v3 are not supported at 3.5-inch HDD configuration.

1. Chassis is powered on.
2. A3 - Derate maximum allowable temperature 1°C/175 m above 950 m.
3. The minimum humidity level for class A3 is the higher (more moisture) of the -12°C dew point and the 8% relative humidity. These intersect at approximately 25°C. Below this intersection (25°C) the dew point (-12°C) represents the minimum moisture level, while above it relative humidity (8%) is the minimum.
4. Moisture levels lower than 0.5°C DP, but not lower -10°C DP or 8% relative humidity, can be accepted if appropriate control measures are implemented to limit the generation of static electricity on personnel and equipment in the data center. All personnel and mobile furnishings and equipment must be connected to ground by an appropriate static control system. The following items are considered the minimum requirements:
  - a. Conductive materials (conductive flooring, conductive footwear on all personnel that go into the datacenter, all mobile furnishings and equipment will be made of conductive or static dissipative materials).
  - b. During maintenance on any hardware, a properly functioning wrist strap must be used by any personnel who contacts IT equipment.
5. 5°C/hr for data centers employing tape drives and 20°C/hr for data centers employing disk drives.
6. Chassis is removed from original shipping container and is installed but not in use, for example, during repair, maintenance, or upgrade.
7. The equipment acclimation period is 1 hour per 20°C of temperature change from the shipping environment to the operating environment.
8. Condensation is acceptable, but not rain.

### **Homologation**

This product is not certified for direct connection by any means whatsoever to interfaces of public telecommunications networks. Certification may be required by law prior to making any such connection. Contact an IBM representative or reseller for any questions.

### **Hardware requirements**

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

- Keyboard
- Mouse
- HDD
- Display

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

For service, the server requires a compatible:

- Keyboard
- Mouse
- HDD
- Display

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

### **Software requirements**

The following software products have been tested by IBM and software publishers in the latest available versions, and where appropriate, are or will soon be certified by the publisher to be compatible with the System x3550 M5 server.

#### Operating systems

- Microsoft
  - Microsoft Windows Server 2008 R2
  - Microsoft Windows Server 2012 R2
- Linux™
  - SUSE Linux Enterprise Server 12
  - Red Hat Enterprise Linux 5 Server x64 Edition
  - SUSE Linux Enterprise Server 12 with XEN
  - SUSE LINUX Enterprise Server 11 for AMD64/EM64T
  - SUSE LINUX Enterprise Server 11 with Xen for AMD64/EM64T
  - Red Hat Enterprise Linux 6 Server x64 Edition
  - Red Hat Enterprise Linux 7
- VMware
  - VMware vSphere 5.5 (ESXi)
  - VMware vSphere 5.1 (ESXi)

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

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

IBM makes no representation or warranty regarding third-party products, including those designated as ServerProven.

### **Compatibility**

The System x3550 M5 systems contain licensed system programs that include set configuration, set features, and test programs. System UEFI is loaded from a "flash" EEPROM into system memory. This UEFI provides instructions and interfaces designed to support the standard features of the x3550 M5 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 System x servers. The *Sales Manual* is updated periodically as new features and options are announced that support these servers.

### **Limitations**

- The System x3550 M5 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 UEFI configuration. The default configuration from the factory is in the shared position. In the shared position, the service processor controls the port until the operating system is running, then the operating system takes control. The service processor can regain control of the port for user-configured dial-out situations or if the operating system is not available, but operating system control cannot be reestablished without resetting the server.
- System x3550 M5 servers can address a maximum of 1.5 TB of system memory. All supported system memory is addressable through direct memory access. The System x3550 M5 server supports 4 GB, 8 GB, and 16 GB DDR4 SDRAM Registered DIMMs or 32 GB or 64 GB LRDIMMs. Different types of DIMMs can not coexist in the same system. Refer to the [Planning information](#) section for supported memory options.
- To ensure proper air flow for cooling, the System x3550 M5 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 type and clock speed. Mixing microprocessors of different speeds or cache size is not supported.
- Solid-state memory cells have an intrinsic, finite number of write cycles that each cell can incur. As a result, each solid-state device has a maximum amount of write cycles to which it can be subjected, documented as Total Bytes Written (TBW). 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. Additional information is available at

<http://www-03.ibm.com/systems/x/options/storage/solidstate/index.html>

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

### **Planning information**

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#### **Customer responsibilities**

The System x3550 M5 server is designated as customer setup. Customer setup instructions are shipped with each system.

#### **Configuration information**

##### **Integrated RAID 1 configuration**

There are two manufacturing instructions (MI) available to allow the user to set up a RAID 1 configuration.

The two instructions are:

- Integrated Mirroring - Two HDDs required using Instruction 01R1356
- Integrated Mirroring with HotSpare - Three HDDs required using Instruction 01R1357

## Cabling

Simple-swap non-RAID configuration contains cables supporting up to eight 2.5-inch or four 3.5-inch simple-swap non-RAID SATA drives. It does not contain any backplane.

## Rack installations

System x3550 M5 server 1U rack-drawer models should be installed in a 19-inch rack cabinet designed for 28-inch deep devices, such as the NetBAY42U ER and NetBAY42U SR. Installation into some of the older Netfinity® racks (9306900, 9306910, and 9306200) requires a rack extension kit.

If a System x3550 M5 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 698.5 - 762 mm (27.5 - 30 in.).
- The thickness of the mounting flanges must be 1.9 - 3.3 mm.
- The mounting flanges must have either 7.1 mm (.28 in.) diameter holes or 9.6 mm (.38 in.) square holes on the standard EIA hole spacing.
- The rack must have a minimum depth of 70 mm (2.76 in.) between the front mounting flange and inside of the front door for appropriate cooling.
- The rack must have a minimum depth of 157 mm (6.2 in.) between the rear mounting flange and inside of the rear door to install the server and make space for cable management.
- 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, and PDUs.
- The rack must provide proper stabilization so that the rack does not become unstable when servers are pulled out for service.

## Supported memory options

The following memory options are supported:

- 46W0784 - 4GB (1Rx8 4Gbit 1.2V) PC4-17000 2133MHz DDR4 RDIMM LP RDIMM
- 46W0788 - 8GB (1Rx4 4Gbit 1.2V) PC4-17000 2133MHz DDR4 RDIMM LP RDIMM
- 46W0792 - 8GB (2Rx8 4Gbit 1.2V) PC4-17000 2133MHz DDR4 RDIMM LP RDIMM
- 46W0796 - 16GB (2Rx4 4Gbit 1.2V) PC4-17000 2133MHz DDR4 RDIMM LP RDIMM
- 46W0800 - 32GB (4Rx4 4Gbit 1.2V) PC4-17000 2133MHz DDR4 LR-DIMM LR-DIMM
- 95Y4812 - 64GB 4Rx4 8Gbit 1.2V PC4-17000 2133MHz DDR4 LR-DIMM LR-DIMM

## Power considerations

The System x3550 M5 server includes a standard 550-watt ac or 750-watt ac or 900-watt ac hot-swap power supply.

**None:** For information on additional support, certification, version information, compatibility, or network operating systems, visit

IBM makes no representation or warranty regarding third-party products, including those designated as ServerProven.

### **Cable orders**

Four ports of 10/100/1000 Mbps is standard with the System x3550 M5 server. They are supported with a RJ-45 connector. The RJ-45 connector provides a 10BASE-T, 100BASE-TX, and 1000BASE-TX interface for connecting twisted-pair cable to the Ethernet network. Cabling is not included with the server. To connect the Ethernet controller to a repeater or switch, use an unshielded twisted pair (UTP) cable with RJ-45 connectors at both ends. For 100/1000 Mbps operation, Category 5 cabling must be used. For 10 Mbps operation, Category 3, or better, cabling must be used.

There are no additional cabling requirements, other than for system power, keyboard, mouse, and monitor connections.

### **Installability**

The System x3550 M5 requires about 20 minutes for installation. Installation includes unpacking, setting up, and powering on the system. Additional time is required to install an operating system, additional adapters, or features.

### **Packaging**

Product	Package description	Boxes
System x3550 M5	System unit carton	1
	Contents:	
	System unit	
	Rack kit	
System x3550 M5	System ship group	1
	Contents:	
	Important Notices Flyer	
	Rack Installation Instructions	
	CD - Documentation (installation and Service Guides)	

The System x3550 M5 system is shipped as a single package. Other items are in zipped bags or boxes.

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

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Security and auditability features include:

- Power-on and privileged access password functions control access to the data and server setup program on the server.
- 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.
- Selectable boot sequence can be used to prevent unauthorized installation of software or removal of data from the diskette drive.

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



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

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## IBM Electronic Services

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Electronic Service Agent™ and the IBM Electronic Support web portal are dedicated to providing fast, exceptional support to IBM Systems customers. The IBM Electronic Service Agent tool is a no-additional-charge tool that proactively monitors and reports hardware events, such as system errors, performance issues, and inventory. The Electronic Service Agent tool can help you stay focused on your company's strategic business initiatives, save time, and spend less effort managing day-to-day IT maintenance issues. Servers enabled with this tool can be monitored remotely around the clock by IBM Support all at no additional cost to you.

Now integrated into the base operating system of AIX® 5.3, AIX 6.1, and AIX 7.1, Electronic Service Agent is designed to automatically and electronically report system failures and utilization issues to IBM, which can result in faster problem resolution and increased availability. System configuration and inventory information collected by the Electronic Service Agent tool also can be viewed on the secure Electronic Support web portal, and used to improve problem determination and resolution by you and the IBM support team. To access the tool main menu, simply type "smitty esa\_main", and select "Configure Electronic Service Agent." In addition, ESA now includes a powerful web user interface, giving the administrator easy access to status, tool settings, problem information, and filters. For more information and documentation on how to configure and use Electronic Service Agent, refer to

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

The IBM Electronic Support portal is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. This portal enables you to gain easier access to IBM resources for assistance in resolving technical problems. The My Systems and Premium Search functions make it even easier for Electronic Service Agent tool-enabled customers to track system inventory and find pertinent fixes.

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### Benefits

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**Increased uptime:** The Electronic Service Agent tool is designed to enhance the Warranty or Maintenance Agreement by providing faster hardware error reporting and uploading system information to IBM Support. This can translate to less wasted time monitoring the "symptoms," diagnosing the error, and manually calling IBM Support to open a problem record. Its 24 x 7 monitoring and reporting mean no more dependence on human intervention or off-hours customer personnel when errors are encountered in the middle of the night.

**Security:** The Electronic Service Agent tool is designed to be secure in monitoring, reporting, and storing the data at IBM. The Electronic Service Agent tool securely transmits either via the Internet (HTTPS or VPN) or modem, and can be configured to communicate securely through gateways to provide customers a single point of exit from their site. Communication is one way. Activating Electronic Service Agent does not enable IBM to call into a customer's system. System inventory information is stored in a secure database, which is protected behind IBM firewalls. It is viewable only by the customer and IBM. The customer's business applications or business data is never transmitted to IBM.

**More accurate reporting:** Since system information and error logs are automatically uploaded to the IBM Support center in conjunction with the service request, customers are not required to find and send system information, decreasing the risk of misreported or misdiagnosed errors. Once inside IBM, problem error data

is run through a data knowledge management system and knowledge articles are appended to the problem record.

**Customized support:** Using the IBM ID entered during activation, customers can view system and support information in the "My Systems" and "Premium Search" sections of the Electronic Support website at

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

My Systems provides valuable reports of installed hardware and software using information collected from the systems by Electronic Service Agent. Reports are available for any system associated with the customer's IBM ID. Premium Search combines the function of search and the value of Electronic Service Agent information, providing advanced search of the technical support knowledgebase. Using Premium Search and the Electronic Service Agent information that has been collected from your system, customers are able to see search results that apply specifically to their systems.

For more information on how to utilize the power of IBM Electronic Services, contact your IBM Systems Services Representative, or visit

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

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## Terms and conditions

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### IBM Global Financing

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Yes

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

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

Warranty Information  
P.O. Box 12195  
Research Triangle Park, NC 27709  
Attn: Dept JDJA/B203

### Warranty period

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- System - Three years
- Optional features - One year
- All other product warranty terms for the machine remain unchanged.

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

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
- HDD 4 slot HS kit
- 3.5-inch top cover

- 3.5-inch mechanical chassis
- Safety cover
- 2.5-inch top cover
- 16DR M5 tape bezel
- Airflow baffle
- Gen-III slide kit
- Gen-III 1U CMA kit
- 2.5-inch mechanical chassis
- 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
- RAID batteries

### **Warranty service**

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If required, IBM provides repair or exchange service, depending on the type of warranty service specified below for the machine. IBM will attempt to resolve your problem over the telephone or electronically by access to an IBM website. Certain machines contain remote support capabilities for direct problem reporting, remote problem determination, and resolution with IBM. You must follow the problem determination and resolution procedures that IBM specifies. Following problem determination, if IBM determines On-site Service is required, scheduling of service will depend upon the time of your call, machine technology and redundancy, and availability of parts. Service levels are response-time objectives and are not guaranteed. The specified level of warranty service may not be available in all worldwide locations. Additional charges may apply outside 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 1 CRUs:

- CMOS batteries
- Hard disk drives
- Hot-swap fan
- Hot-swap AC power supply
- Memory DIMM
- Optical drive
- PCI adapter
- Power cord
- Service label
- System label
- Hyper visor USB key
- PCI riser
- RAID card without Battery
- Tape drive
- Ethernet daughter card
- Backplanes

The following parts or features have been designated as Tier 2 CRUs:

- System board
- Processor

### ***Limitations***

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

### ***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 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 (IWS)***

IWS is available in selected countries or regions.

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

Under IWS, warranty service will be provided with the prevailing warranty service type and service level available for the IWS-eligible machine type in the servicing

country, and the warranty period observed will be that of the country in which the machine was purchased.

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

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

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

### ***Licensing***

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

### **Maintenance services**

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

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

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

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

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

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

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

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

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

#### ***CRU Service***

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

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

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

#### *On-site Service*

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

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

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Maintenance services are available for ICA legacy contracts.

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

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

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

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

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

IBM is now shipping machines with selected non-IBM parts that contain an IBM field replaceable unit (FRU) part number label. These parts are to be serviced during the IBM machine warranty period. IBM is covering the service on these selected non-IBM parts as an accommodation to its customers, and normal warranty service procedures for the IBM machine apply.

#### ***Warranty service upgrades and maintenance services***

Under certain conditions, IBM Integrated Technology Services repairs selected non-IBM parts at no additional charge for machines that are covered under warranty service upgrades or maintenance services.

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

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

#### ***IBM hourly service rate classification***

One

#### ***Field-installable features***

Yes

#### ***Model conversions***

No

#### ***Machine installation***

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

### **Graduated program license charges apply**

No

### **Licensed Machine Code**

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

[http://www-304.ibm.com/systems/support/machine\\_warranties/machine\\_code.html](http://www-304.ibm.com/systems/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.ibm.com/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.

### **Machine Code License Acceptance Requirement**

Acceptance-By-Use Machine: No, the LIC license requires signed acceptance by the machine's end user directly with IBM, applicable to orders for a new machine, machine type conversion MES, and to machines transferred to another user.

### **Educational allowance**

None

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## **Prices**

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

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

To locate the web price, search on the feature number in the Search field.

Option SEO Description	SEO Number
System x3550 M5 Thermal Kit	00KA059
System x3550 M5 Slide Kit G4	00KA606
System x Enterprise 1U Cable Management Arm (CMA)	00KA607
System x3550 M5 2x 2.5" HS HDD Rear Kit	00KA058
System x3550 M5 4x 2.5" HS HDD Kit PLUS	00KA055
System x3550 M5 4x 2.5 SS HDD Kit PLUS, Non-Raid	00KA056
COM Port Bracket	00KA161
Lockable Front Bezel	



00KA162  
 System x3550 M5 4x 2.5" SS HDD Kit PLUS, HW RAID  
 00KA060  
 System x 550W High Efficiency Platinum AC Power Supply  
 00KA094  
 System x 750W High Efficiency Platinum AC Power Supply  
 00KA096  
 System x 750W High Efficiency Titanium AC Power Supply (200-240V)  
 00KA097  
 System x 900W High Efficiency Platinum AC Power Supply  
 00KA098  
 Intel Xeon Processor E5-2620 v3 6C 2.4GHz 15MB Cache 1866MHz 85W  
 00KA067  
 Intel Xeon Processor E5-2630 v3 8C 2.4GHz 20MB Cache 1866MHz 85W  
 00KA068  
 Intel Xeon Processor E5-2640 v3 8C 2.6GHz 20MB Cache 1866MHz 90W  
 00KA069  
 Intel Xeon Processor E5-2603 v3 6C 1.6GHz 15MB Cache 1600MHz 85W  
 00KA070  
 Intel Xeon Processor E5-2609 v3 6C 1.9GHz 15MB Cache 1600MHz 85W  
 00KA071  
 Intel Xeon Processor E5-2650 v3 10C 2.3GHz 25MB Cache 2133MHz 105W  
 00KA072  
 Intel Xeon Processor E5-2670 v3 12C 2.3GHz 30MB Cache 2133MHz 120W  
 00KA074  
 Intel Xeon Processor E5-2680 v3 12C 2.5GHz 30MB Cache 2133MHz 120W  
 00KA075  
 Intel Xeon Processor E5-2690 v3 12C 2.6GHz 30MB Cache 2133MHz 135W  
 00KA076  
 Intel Xeon Processor E5-2630L v3 8C 1.8GHz 20MB Cache 1866MHz 55W  
 00KA077  
 Intel Xeon Processor E5-2699 v3 18C 2.3GHz 45MB Cache 2133MHz 145W  
 00KF584  
 UltraSlim Enhanced SATA DVD-ROM  
 00AM066  
 UltraSlim Enhanced SATA Multi-Burner  
 00AM067  
 System x3550 M5 PCIe Riser 1 (1x LP x16 CPU0)  
 00KA061  
 System x Advanced LCD Lightpath Kit  
 00KA054  
 System x3550 M5 PCIe Riser 2, 1 CPU (2xLP, LP x8 CPU0 + LP x8 CPU0)  
 00KA062  
 System x3550 M5 PCIe Riser 1 (1x ML2 x16 CPU0)  
 00KA063  
 System x3550 M5 PCIe Riser 2, 1-2 CPU (LP x16 CPU0 + LP x16 CPU1)  
 00KA066  
 Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x  
 00JY820  
 Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)  
 00JY824  
 Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x  
 00JY830  
 Mellanox ConnectX-3 Pro ML2 2x40GbE/FDR VPI Adapter for IBM System x  
 00FP650

Description	SEO Number	Initial/MES/Both/Support	CSU
IBM x3550 M5 server	5463A2U	Both	Yes
IBM x3550 M5 server	5463B2U	Both	Yes
IBM x3550 M5 server	5463C2U	Both	Yes
IBM x3550 M5 server	5463C4U	Both	Yes
IBM x3550 M5 server	5463D2U	Both	Yes
IBM x3550 M5 server	5463F2U	Both	Yes
IBM x3550 M5 server	5463G2U	Both	Yes
IBM x3550 M5 server	5463H2U	Both	Yes
IBM x3550 M5 server	546362U	Both	Yes
IBM x3550 M5 server	5463J2U	Both	Yes

IBM x3550 M5 server	5463L2U	Both	Yes
IBM x3550 M5 server	5463M2U	Both	Yes

Description	SEO Number	Initial/MES/Both/Support	CSU
IBM x3550 M5 server	5463EAU	Both	Yes
IBM x3550 M5 server	5463EBU	Both	Yes
IBM x3550 M5 server	5463ECU	Both	Yes
IBM x3550 M5 server	5463EDU	Both	Yes

The following are features already announced for the 2583 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support	CSU
AC1				Yes
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	AC1	A5UT	Initial	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	AC1	A5UU	Initial	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	AC1	A5UV	Initial	
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	AC1	AS3M	Initial	

The following are features already announced for the 2583 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	MC1	A5UT	Initial
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	MC1	A5UU	Initial
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	MC1	A5UV	Initial
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	MC1	AS3M	Initial

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

Description	Model Number	Feature Number	Initial/MES/Both/Support
UltraSlim Enhanced SATA DVD-ROM	HC1	A5KG	MES
UltraSlim Enhanced SATA Multi-Burner	HC1	A5KH	MES
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	HC1	A5UT	MES
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)			

Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	HC1	A5UV	MES
System x3550 M5 4x 2.5" HS HDD Kit PLUS	HC1	A5UU	MES
System x3550 M5 4x 2.5 SS HDD Kit PLUS, Non-Raid	HC1	A59X	MES
System x3550 M5 2x 2.5" HS HDD Rear Kit	HC1	A59Z	MES
System x3550 M5 4x 2.5" SS HDD Kit PLUS, HW RAID	HC1	A5A2	MES
System x3550 M5 Thermal Kit	HC1	A5A7	MES
IBM System x3550 M5 slide Kit G4	HC1	A5AJ	MES
System x Enterprise 1U Cable Management Arm (CMA)	HC1	A5AK	MES
COM Port Bracket	HC1	A5AL	MES
Lockable Front Bezel	HC1	A5AN	MES
System x 550w High Efficiency Platinum AC Power Supply	HC1	A5AP	MES
System x 750w High Efficiency Platinum AC Power Supply	HC1	A5AX	MES
System x 750w High Efficiency Titanium AC Power Supply (200-240V)	HC1	A5AY	MES
System x 900w High Efficiency Platinum AC Power Supply	HC1	A5AZ	MES
Addl Intel Xeon Processor E5-2620 v3 6C 2.4GHZ 15MB 1866MHZ 85W	HC1	A5B0	MES
Addl Intel Xeon Processor E5-2630 v3 8C 2.4GHZ 20MB 1866MHZ 85W	HC1	A5BS	MES
Addl Intel Xeon Processor E5-2640 v3 8C 2.6GHZ 20MB 1866MHZ 90W	HC1	A5BT	MES
Addl Intel Xeon Processor E5-2603 v3 6C 1.6GHZ 15MB 1600MHZ 85W	HC1	A5BU	MES
Addl Intel Xeon Processor E5-2609 v3 6C 1.9GHZ 15MB 1600MHZ 85W	HC1	A5BV	MES
Addl Intel Xeon Processor E5-2650 v3 10C 2.3GHZ 25MB 2133MHZ 105W	HC1	A5BW	MES
Addl Intel Xeon Processor E5-2670 v3 12C 2.3GHZ 30MB 2133MHZ 120W	HC1	A5BX	MES
Addl Intel Xeon Processor E5-2680 v3 12C 2.5GHZ 30MB 2133MHZ 120W	HC1	A5BZ	MES
Addl Intel Xeon Processor E5-2690 v3 12C 2.6GHZ 30MB 2133MHZ 135W	HC1	A5C0	MES
Addl Intel Xeon Processor E5-2630L v3 8C 1.8GHZ 20MB 1866MHZ 55W	HC1	A5C1	MES
Mellanox ConnectX-3 Pro ML2 2x40GbE/FDR VPI Adapter for IBM System x	HC1	A5C2	MES
Addl Intel Xeon Processor E5-2699 v3 18C 2.3GHZ 45MB 2133MHZ 145W	HC1	A5RK	MES
System x Advanced LCD Light path Kit	HC1	ARZ9	MES
System x3550 M5 PCIe Riser 1 (1x LP x16 CPU0)	HC1	AS6U	MES
System x3550 M5 PCIe Riser 2, 1 CPU (2xLP,LP x8)	HC1	AS6V	MES

CPU0 + LP x8 CPU0)	HC1	AS6W	MES
System x3550 M5 PCIe Riser 1 (1x ML2 x16 CPU0)	HC1	AS6X	MES
System x3550 M5 PCIe Riser 2, 1-2 CPU (LP x16 CPU0 + LP x16 CPU1)	HC1	AS6Y	MES

The following are features already announced for the 3837 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support	CSU
AC1	AC1			Yes
Mellanox ConnectX-3 Pro ML2 2x40GbE/FDR VPI Adapter for IBM System x	AC1	A5RK	Initial	
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	AC1	A5UT	Initial	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	AC1	A5UU	Initial	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	AC1	A5UV	Initial	

The following are features already announced for the 3837 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support
Mellanox ConnectX-3 Pro ML2 2x40GbE/FDR VPI Adapter for IBM System x	AC2	A5RK	Initial
	AC3		Initial
	AC4		Initial
	AC5		Initial
	AC6		Initial
	AC7		Initial
	MC1		Initial
	MC2		Initial
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	AC2	A5UT	Initial
	AC3		Initial
	AC4		Initial
	AC5		Initial
	AC6		Initial
	AC7		Initial
	MC1		Initial
	MC2		Initial
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	AC2	A5UU	Initial
	AC3		Initial
	AC4		Initial
	AC5		Initial
	AC6		Initial
	AC7		Initial
	MC1		Initial
	MC2		Initial
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	AC2	A5UV	Initial
	AC3		Initial

AC4	Initial
AC5	Initial
AC6	Initial
AC7	Initial
MC1	Initial
MC2	Initial

The following are features already announced for the 5455 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support	CSU
AC1	AC1			Yes
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	AC1	A5UT	Initial	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	AC1	A5UU	Initial	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	AC1	A5UV	Initial	
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	AC1	AS3M	Initial	

The following are features already announced for the 5455 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support	CSU
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	MC1	A5UT	Initial	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	MC1	A5UU	Initial	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	MC1	A5UV	Initial	
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	MC1	AS3M	Initial	

The following are features already announced for the 5458 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support	CSU
AC1	AC1			Yes
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	AC1	A5UT	Initial	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	AC1	A5UU	Initial	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	AC1	A5UV	Initial	
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	AC1	AS3M	Initial	

The following are features already announced for the 5458 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	MC1	A5UT	Initial
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	MC1	A5UU	Initial
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	MC1	A5UV	Initial
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	MC1	AS3M	Initial

The following are features already announced for the 5460 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support	CSU
AC1	AC1			Yes
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	AC1	A5UT	Initial	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	AC1	A5UU	Initial	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	AC1	A5UV	Initial	
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	AC1	AS3M	Initial	

The following are features already announced for the 5460 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	MC1	A5UT	Initial
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	MC1	A5UU	Initial
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	MC1	A5UV	Initial
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	MC1	AS3M	Initial

The following are newly announced features on the specified models of the 5463 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support	CSU
IBM System x3550 M5	AC1			Yes
64GB TruDDR4 Memory (4Rx4,1.2V) CL15 2133MHZ LP LRDIMM	AC1	A5UK	Initial	
IBM SKLM for System x w/SEDS - S and S	AC1	AS6C	Initial	
IBM 960GB SATA 2.5" MLC G3SS Entry SSD	AC1	AS5Z	Initial	
QLogic 10Gb SFP+ SR Optical Transceiver	AC1	0064	Initial	
Brocade 10Gb SFP+ SR Optical Transceiver	AC1	0069	Initial	
UID Asset Tag Label	AC1	0747	Initial	
EMEA Long Leadtime Configurations	AC1	1763	Initial	
Hungary CHW plant 9SH	AC1	1764	Initial	
Guad CHW plant 9KQ	AC1	1765	Initial	
ISTC CHW 9K2	AC1	1766	Initial	
RTP CHW 9NR	AC1	1767	Initial	
Offload Manufacturing to Guadalajara	AC1	1768	Initial	
Offload Manufacturing to RTP	AC1	1769	Initial	
Offload Manufacturing to ISTC	AC1	1770	Initial	
Routing for AP Foxconn	AC1	1771	Initial	
Capacity Scheduling Service	AC1	1772	Initial	
Custom SLA Scheduling Service	AC1	1796	Initial	
Custom Asset Tagging - Standard	AC1	2200	Initial	
Custom Asset Tagging - Enhanced	AC1	2201	Initial	
Custom Image Load - Server	AC1	2204	Initial	
Custom Media Shipgroup	AC1	2206	Initial	
Request for Global Trade Number (UPC or EAN)	AC1	2207	Initial	
Custom Software/Firmware Setting - Standard	AC1	2208	Initial	
Custom Software/Firmware Setting - Enhanced	AC1	2209	Initial	
Custom RAID Configuration	AC1	2212	Initial	
Custom Unit Carton Label	AC1	2220	Initial	
Request for a new Vendor Logo	AC1	2247	Initial	
Request for a Classic RPQ	AC1	2248	Initial	
RAID Configuration	AC1	2302	Initial	

Rack Installation of 1U Component	AC1	2305	Initial
Primary Array 12 HDDs	AC1	2400	Initial
Secondary Array 9 HDDs	AC1	2405	Initial
Secondary Array 10 HDDs	AC1	2406	Initial
Install largest capacity, faster drives starting in Array 1	AC1	2498	Initial
Install smallest capacity, slower drives starting in Array 1	AC1	2499	Initial
Rack 01	AC1	3101	Initial
Rack 02	AC1	3102	Initial
Rack 03	AC1	3103	Initial
Rack 04	AC1	3104	Initial
Rack 05	AC1	3105	Initial
Rack 06	AC1	3106	Initial
Rack 07	AC1	3107	Initial
Rack 08	AC1	3108	Initial
Rack 09	AC1	3109	Initial
Rack 10	AC1	3110	Initial
Rack 11	AC1	3111	Initial
Rack 12	AC1	3112	Initial
Rack 13	AC1	3113	Initial
Rack 14	AC1	3114	Initial
Rack 15	AC1	3115	Initial
Rack 16	AC1	3116	Initial
Rack 17	AC1	3117	Initial
Rack 18	AC1	3118	Initial
Rack 19	AC1	3119	Initial
Rack 20	AC1	3120	Initial
Rack 21	AC1	3121	Initial
Rack 22	AC1	3122	Initial
Rack 23	AC1	3123	Initial
Rack 24	AC1	3124	Initial
Rack 25	AC1	3125	Initial
Rack 26	AC1	3126	Initial
Rack 27	AC1	3127	Initial
Rack 28	AC1	3128	Initial
Rack 29	AC1	3129	Initial
Rack 30	AC1	3130	Initial



Rack 31			
Rack 32	AC1	3131	Initial
Rack 33	AC1	3132	Initial
Rack 34	AC1	3133	Initial
Rack 35	AC1	3134	Initial
Rack 36	AC1	3135	Initial
Rack 37	AC1	3136	Initial
Rack 38	AC1	3137	Initial
Rack 39	AC1	3138	Initial
Rack 40	AC1	3139	Initial
Rack 41	AC1	3140	Initial
Rack 42	AC1	3141	Initial
Rack 43	AC1	3142	Initial
Rack 44	AC1	3143	Initial
Rack 45	AC1	3144	Initial
Rack 46	AC1	3145	Initial
Rack 47	AC1	3146	Initial
Rack 48	AC1	3147	Initial
Rack 49	AC1	3148	Initial
Rack 50	AC1	3149	Initial
Rack 51	AC1	3150	Initial
Rack 52	AC1	3151	Initial
Rack 53	AC1	3152	Initial
Rack 54	AC1	3153	Initial
Rack 55	AC1	3154	Initial
Rack 56	AC1	3155	Initial
Rack 57	AC1	3156	Initial
Rack 58	AC1	3157	Initial
Rack 59	AC1	3158	Initial
Rack 60	AC1	3159	Initial
Rack 61	AC1	3160	Initial
Rack 62	AC1	3161	Initial
Rack 63	AC1	3162	Initial
Rack 64	AC1	3163	Initial
Rack location U01	AC1	3164	Initial
Rack location U02	AC1	3201	Initial
Rack location U03	AC1	3202	Initial
	AC1	3203	Initial

Rack location U04			
Rack location U05	AC1	3204	Initial
Rack location U06	AC1	3205	Initial
Rack location U07	AC1	3206	Initial
Rack location U08	AC1	3207	Initial
Rack location U09	AC1	3208	Initial
Rack location U10	AC1	3209	Initial
Rack location U11	AC1	3210	Initial
Rack location U12	AC1	3211	Initial
Rack location U13	AC1	3212	Initial
Rack location U14	AC1	3213	Initial
Rack location U15	AC1	3214	Initial
Rack location U16	AC1	3215	Initial
Rack location U17	AC1	3216	Initial
Rack location U18	AC1	3217	Initial
Rack location U19	AC1	3218	Initial
Rack location U20	AC1	3219	Initial
Rack location U21	AC1	3220	Initial
Rack location U22	AC1	3221	Initial
Rack location U23	AC1	3222	Initial
Rack location U24	AC1	3223	Initial
Rack location U25	AC1	3224	Initial
Rack location U26	AC1	3225	Initial
Rack location U27	AC1	3226	Initial
Rack location U28	AC1	3227	Initial
Rack location U29	AC1	3228	Initial
Rack location U30	AC1	3229	Initial
Rack location U31	AC1	3230	Initial
Rack location U32	AC1	3231	Initial
Rack location U33	AC1	3232	Initial
Rack location U34	AC1	3233	Initial
Rack location U35	AC1	3234	Initial
Rack location U36	AC1	3235	Initial
Rack location U37	AC1	3236	Initial
Rack location U38	AC1	3237	Initial
Rack location U39	AC1	3238	Initial
Rack location U40	AC1	3239	Initial
	AC1	3240	Initial

Rack location U41			
	AC1	3241	Initial
Rack location U42			
	AC1	3242	Initial
Rack location U43			
	AC1	3243	Initial
Rack location U44			
	AC1	3244	Initial
Rack location U45			
	AC1	3245	Initial
Rack location U46			
	AC1	3246	Initial
Rack location U47			
	AC1	3247	Initial
QLogic 8Gb FC Single-port HBA for IBM System x			
	AC1	3578	Initial
QLogic 8Gb FC Dual-port HBA for IBM System x			
	AC1	3579	Initial
Emulex 8Gb FC Single-port HBA for IBM System x			
	AC1	3580	Initial
Emulex 8Gb FC Dual-port HBA for IBM System x			
	AC1	3581	Initial
Brocade 8Gb FC Single-port HBA for IBM System x			
	AC1	3589	Initial
Brocade 8Gb FC Dual-port HBA for IBM System x			
	AC1	3591	Initial
IBM 3M SAS Cable			
	AC1	3707	Initial
IBM 1M SAS Cable			
	AC1	3708	Initial
IBM USB Conversion Option Pack			
	AC1	3756	Initial
IBM Single Cable USB Conversion Option (UCO)			
	AC1	3757	Initial
2U bracket for Emulex 8Gb FC Single-port HBA for System x			
	AC1	4047	Initial
2U bracket for Emulex 8Gb FC Dual-port HBA for System x			
	AC1	4048	Initial
2U bracket for QLogic 8Gb FC Single-port HBA for System x			
	AC1	4049	Initial
IBM SFP+ SR Transceiver			
	AC1	5053	Initial
IBM Serial Conversion Option (SCO)			
	AC1	5340	Initial
IBM Virtual Media Conversion Option Gen2 (VCO2)			
	AC1	5341	Initial
Select Storage devices - no IBM-configured RAID required			
	AC1	5977	Initial
Select Storage devices - IBM-configured RAID			
	AC1	5978	Initial
SOFS Solution Code MFG Instruction			
	AC1	6124	Initial
SAP-BWA Solution Code MFG Instruction			
	AC1	6125	Initial
InfoSphere-BWA Solution Code MFG Instruction			
	AC1	6126	Initial
GMAS Solution Code MFG Instruction			
	AC1	6127	Initial
IBW-SSD Solution Code MFG Instruction			
	AC1	6128	Initial
Cloudburst Solution Code MFG Instruction			
	AC1	6129	Initial
SoNAS Solution Code MFG Instruction			
	AC1	6130	Initial
1.5m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable			
	AC1	6201	Initial
2.8m, 10A/100-250V, C13 to IEC 320-C20 Rack Power Cable			
	AC1	6204	Initial

Line cord - 4.3M, 10A/125V, C13 to NEMA 5-15P (US)	AC1	6207	Initial
4.3m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable	AC1	6263	Initial
2.8m, 10A/100-250V, C13 to IEC 320-C14 Rack Power Cable	AC1	6311	Initial
2.8m, 10A/120V, C13 to NEMA 5-15P (US) Line Cord	AC1	6313	Initial
Rack power cable - 2.0m, 125-250V, C13 to IEC 320-C14 (ww)	AC1	6316	Initial
Line cord - 1.8m, 10A/250V, C13 to NEMA 6-15P (US)	AC1	6351	Initial
Line cord - 1.8M, 10A/125V, C13 to NEMA 5-15P (US)	AC1	6369	Initial
Line cord - 2.8m, 10A/250V, C13 to NEMA 6-15P (US)	AC1	6372	Initial
2.8m, 13A/125-10A/250V, C13 to IEC 320-C14 Rack Power Cable	AC1	6400	Initial
Primary Array 2 HDDs	AC1	7008	Initial
Primary Array 3 HDDs	AC1	7009	Initial
Primary Array 4 HDDs	AC1	7010	Initial
Primary Array 5 HDDs	AC1	7011	Initial
Primary Array 6 HDDs	AC1	7012	Initial
Primary Array 7 HDDs	AC1	7013	Initial
Primary Array 8 HDDs	AC1	7014	Initial
Secondary Array 2 HDDs	AC1	7015	Initial
Secondary Array 3 HDDs	AC1	7016	Initial
Secondary Array 4 HDDs	AC1	7017	Initial
Secondary Array 5 HDDs	AC1	7057	Initial
Secondary Array 6 HDDs	AC1	7058	Initial
Secondary Array 7 HDDs	AC1	7059	Initial
Secondary Array 8 HDDs	AC1	7060	Initial
2U bracket for QLogic 8Gb FC Dual-port HBA for System x	AC1	7550	Initial
2U Bracket for Brocade 8Gb FC Single-port HBA for IBM System x	AC1	7594	Initial
2U Bracket for Brocade 8Gb FC Dual-port HBA for IBM System x	AC1	7595	Initial
China Warranty	AC1	7599	Initial
Primary Array 9 HDDs	AC1	7664	Initial
Grouped Product	AC1	7830	Initial
Customer Solution Center Services	AC1	7831	Initial

e1350 Special Bid Solution Component	AC1	7929	Initial
No HDD Selected	AC1	8026	Initial
Consolidate Shipment	AC1	8031	Initial
e1350 Solution Component	AC1	8034	Initial
Compute Node	AC1	8036	Initial
Management Node	AC1	8037	Initial
Storage Node	AC1	8038	Initial
TAA Compliant Order	AC1	8067	Initial
General Racking Solution	AC1	8072	Initial
No SATA HDD Selected	AC1	8080	Initial
No 2.5" SAS HDD Selected	AC1	8081	Initial
No 3.5" SAS HDD Selected	AC1	8082	Initial
No Publications Selected	AC1	8086	Initial
Integrate in manufacturing	AC1	8971	Initial
Ship Uninstalled (Safety)	AC1	8972	Initial
Hot Spare	AC1	9013	Initial
Memory Sparing	AC1	9016	Initial
Enable Memory Mirroring	AC1	9017	Initial
Storage Subsystem ID 01	AC1	9170	Initial
Storage Subsystem ID 02	AC1	9171	Initial
Storage Subsystem ID 03	AC1	9172	Initial
Storage Subsystem ID 04	AC1	9173	Initial
Storage Subsystem ID 05	AC1	9174	Initial
Storage Subsystem ID 06	AC1	9175	Initial
Storage Subsystem ID 07	AC1	9176	Initial
Storage Subsystem ID 08	AC1	9177	Initial
Storage Subsystem ID 09	AC1	9178	Initial
Storage Subsystem ID 10	AC1	9179	Initial
Storage Subsystem ID 11	AC1	9180	Initial
Storage Subsystem ID 12	AC1	9181	Initial
Storage Subsystem ID 13	AC1	9182	Initial
Storage Subsystem ID 14	AC1	9183	Initial
Storage Subsystem ID 15	AC1	9184	Initial
Storage Subsystem ID 16	AC1	9185	Initial
Storage Subsystem ID 17	AC1	9186	Initial
Storage Subsystem ID 18	AC1	9187	Initial
Storage Subsystem ID 19	AC1	9188	Initial

Storage Subsystem ID 20			
	AC1	9189	Initial
Preload Specify			
	AC1	9200	Initial
Windows Specify			
	AC1	9201	Initial
Red Hat Specify			
	AC1	9202	Initial
SuSE Specify			
	AC1	9203	Initial
Drop-in-the-Box Specify			
	AC1	9205	Initial
No Preload Specify			
	AC1	9206	Initial
VMware Specify			
	AC1	9207	Initial
Preload by Hardware Feature Specify			
	AC1	9220	Initial
Primary Array 10 HDDs			
	AC1	9714	Initial
Primary Array 11 HDDs			
	AC1	9715	Initial
Software Application (Not Preinstalled) Specify			
	AC1	A0UF	Initial
InfoSphere-BWA R2 Solution Code Mfg Instruction			
	AC1	A0ZZ	Initial
Advanced Grouping			
	AC1	A102	Initial
System x Cluster Upgrade			
	AC1	A103	Initial
IBM Integrated Management Module Advanced Upgrade			
	AC1	A1ML	Initial
0A/250V C13 to NEMA 6-15P 2.8m line cord			
	AC1	A1RF	Initial
5710 Solution			
	AC1	A2B8	Initial
Label KC			
	AC1	A2CM	Initial
Intel x520 Dual Port 10GbE SFP+ Adapter for IBM System x			
	AC1	A2EC	Initial
BCFC for SEntry Solution			
	AC1	A2EE	Initial
IBM Blank USB Memory Key for VMware ESXi Downloads			
	AC1	A2G0	Initial
BladeCenter Foundation for Cloud			
	AC1	A2HM	Initial
Primary Array - RAID 0			
	AC1	A2K6	Initial
Primary Array - RAID 1			
	AC1	A2K7	Initial
Primary Array - RAID 1E			
	AC1	A2K8	Initial
Primary Array - RAID 5			
	AC1	A2K9	Initial
Primary Array - RAID 6			
	AC1	A2KA	Initial
Primary Array - RAID 10			
	AC1	A2KB	Initial
Secondary Array - RAID 0			
	AC1	A2KF	Initial
Secondary Array - RAID 1			
	AC1	A2KG	Initial
Secondary Array - RAID 5			
	AC1	A2KJ	Initial
Secondary Array - RAID 6			
	AC1	A2KK	Initial
Secondary Array - RAID 10			
	AC1	A2KL	Initial
Broadcom NetXtreme I Quad Port GbE Adapter for IBM System x			

Broadcom NetXtreme I Dual Port GbE Adapter for IBM System x	AC1	A2V3	Initial
Broadcom NetXtreme I Quad Port GbE Adapter - 2U Bracket	AC1	A2V4	Initial
Broadcom NetXtreme I Dual Port GbE Adapter - 2U Bracket	AC1	A2VX	Initial
IBM Smart Analytics 5700	AC1	A2VY	Initial
2U bracket for Emulex 16Gb FC Single-port HBA for System x	AC1	A2VZ	Initial
2U bracket for Emulex 16Gb FC Dual-port HBA for System x	AC1	A2W1	Initial
Emulex 16Gb FC Single-port HBA for IBM System x	AC1	A2W2	Initial
Emulex 16Gb FC Dual-port HBA for IBM System x	AC1	A2W5	Initial
No Power Cord Validation	AC1	A2W6	Initial
2U Bracket for Brocade 16Gb FC Single-port HBA for IBM System x	AC1	A2X0	Initial
2U Bracket for Brocade 16Gb FC Dual-port HBA for IBM System x	AC1	A2XS	Initial
Brocade 16Gb FC Single-port HBA for IBM System x	AC1	A2XT	Initial
Brocade 16Gb FC Dual-port HBA for IBM System x	AC1	A2XU	Initial
IBM Smart Analytics System 5710 R2	AC1	A2XV	Initial
System x Integrated Offering for Cloud	AC1	A35Q	Initial
IBM Integrated Platform HPC Solution	AC1	A39S	Initial
IBM GNRx Solution	AC1	A3BA	Initial
IBM Netezza Network Analytics Accelerator (NAA)	AC1	A3BB	Initial
IBM BigInsights Integrated Cluster	AC1	A3BC	Initial
0.6m IBM HD-minisAS to minisAS SAS Cable	AC1	A3BD	Initial
1.5m IBM HD-minisAS to minisAS SAS Cable	AC1	A3HW	Initial
3m IBM HD-minisAS to minisAS SAS Cable	AC1	A3HX	Initial
6m IBM HD-minisAS to minisAS SAS Cable	AC1	A3HY	Initial
QLogic 16Gb FC Single-port HBA for IBM System x	AC1	A3HZ	Initial
QLogic 16Gb FC Dual-port HBA for IBM System x	AC1	A3KW	Initial
2U Bracket for QLogic 16Gb FC Single-port HBA	AC1	A3KX	Initial
2U Bracket for QLogic 16Gb FC Dual-port HBA	AC1	A3KY	Initial
Qlogic 8200 Dual Port 10GbE SFP+ VFA for IBM System x	AC1	A3KZ	Initial
2U Bracket for Qlogic 8200 Dual Port 10GbE SFP+ VFA	AC1	A3MR	Initial
Qlogic 8200 VFA FCoE/iSCSI License for IBM System x (FoD)	AC1	A3MS	Initial
Digital Analytics on Premise for Netezza	AC1	A3MT	Initial
Mellanox ConnectX-3 10 GbE Adapter for IBM System x	AC1	A3MU	Initial
	AC1	A3PM	Initial

Mellanox ConnectX-3 40GbE / FDR IB VPI Adapter for IBM System x	AC1	A3PN	Initial
3U Bracket for Mellanox ConnectX-3 FDR VPI IB/E Adapter	AC1	A3WF	Initial
3U Bracket for Mellanox ConnectX-3 10 GbE Adapter	AC1	A3WG	Initial
NVIDIA Quadro K600	AC1	A3WH	Initial
N2215 SAS/SATA HBA for IBM System x	AC1	A3YY	Initial
ServerRAID M5210 SAS/SATA Controller for IBM System x	AC1	A3YZ	Initial
ServerRAID M5200 Series 1GB Cache/RAID 5 Upgrade for IBM Systems	AC1	A3Z0	Initial
ServerRAID M5200 Series 1GB Flash/RAID 5 Upgrade for IBM Systems	AC1	A3Z1	Initial
ServerRAID M5200 Series 2GB Flash/RAID 5 Upgrade for IBM Systems	AC1	A3Z2	Initial
ServerRAID M5200 Series 4GB Flash/RAID 5 Upgrade for IBM Systems	AC1	A3Z3	Initial
ServerRAID M5200 Series RAID 6 Upgrade for IBM Systems-FoD	AC1	A3Z5	Initial
ServerRAID M5200 Series Zero Cache/RAID 5 Upgrade for IBM Systems-FoD	AC1	A3Z6	Initial
ServerRAID M5200 Series Performance Accelerator for IBM Systems-FoD	AC1	A3Z7	Initial
ServerRAID M5200 Series SSD Caching Enabler for IBM Systems-FoD	AC1	A3Z8	Initial
Intel X540 ML2 Dual Port 10GbE Adapter for IBM System x	AC1	A40P	Initial
Emulex VFA5 ML2 Dual Port 10GbE SFP+ Adapter for IBM System x	AC1	A40Q	Initial
Intel I350-T4 ML2 Quad Port GbE Adapter for IBM System x	AC1	A40R	Initial
Broadcom NetXtreme II ML2 Dual Port 10GbE for IBM System x	AC1	A40S	Initial
Broadcom NetXtreme II ML2 Dual Port 10GbE SFP+ for IBM System x	AC1	A40T	Initial
ServerRAID M1215 SAS/SATA Controller for IBM System x	AC1	A45W	Initial
Flex SAP/BWA	AC1	A463	Initial
Capacity Scheduling Service - Indirect	AC1	A46A	Initial
Custom SLA Scheduling Service - Indirect	AC1	A46B	Initial
Super Cap Cable 925mm for ServRAID M5200 Series Flash	AC1	A47F	Initial
Populate and Boot From Rear Drives	AC1	A483	Initial
Emulex VFA5 ML2 FCoE/iSCSI License for IBM System x (FoD)	AC1	A4NZ	Initial
IBM Application Ready Solutions	AC1	A4P3	Initial
IBM 300GB 10K 6Gbps SAS 2.5" G3HS HDD			



	AC1	A4TL	Initial
IBM 600GB 10K 6Gbps SAS 2.5"	G3HS HDD AC1	A4TM	Initial
IBM 900GB 10K 6Gbps SAS 2.5"	G3HS HDD AC1	A4TN	Initial
IBM 1.2TB 10K 6Gbps SAS 2.5"	G3HS HDD AC1	A4TP	Initial
IBM 300GB 15K 6Gbps SAS 2.5"	G3HS HDD AC1	A4TR	Initial
IBM 600GB 15K 6Gbps SAS 2.5"	G3HS HDD AC1	A4TS	Initial
IBM 500GB 7.2K 6Gbps NL SAS 2.5"	G3HS HDD AC1	A4TT	Initial
IBM 1TB 7.2K 6Gbps NL SAS 2.5"	G3HS HDD AC1	A4TU	Initial
IBM 500GB 7.2K 6Gbps NL SATA 2.5"	G3HS HDD AC1	A4TW	Initial
IBM 1TB 7.2K 6Gbps NL SATA 2.5"	G3HS HDD AC1	A4TX	Initial
S3700 400GB SATA 2.5" MLC G3HS Enterprise SSD for IBM System x			
	AC1	A4U4	Initial
IBM 800GB SAS 2.5" MLC G3HS Enterprise SSD	AC1	A4UC	Initial
UM KVM Module VGA+SD Dual RJ45			
	AC1	A4X4	Initial
Broadcom NetXtreme Dual Port 10GbE SFP+ Adapter for IBM System x			
	AC1	A4Z6	Initial
2U Bracket for Broadcom NetXtreme Dual Port 10GbE SFP+ Adapter			
	AC1	A52A	Initial
Intel I350-T2 2xGbE BaseT Adapter for IBM System x	AC1	A56L	Initial
Intel I350-T4 4xGbE BaseT Adapter for IBM System x	AC1	A56M	Initial
IBM 480GB SATA 2.5" MLC G3HS Enterprise Value SSD	AC1	A579	Initial
IBM System x3550 M5 8x 2.5" Base Chassis	AC1	A58X	Initial
IBM System x3550 M5 10x 2.5" Base Chassis	AC1	A58Y	Initial
IBM System x3550 M5 4x 3.5" Base Chassis	AC1	A58Z	Initial
2.5" HDD Filler			
	AC1	A590	Initial
2.5" 1x2 HDD Filler for empty bay	AC1	A592	Initial
3.5" HDD Filler			
	AC1	A593	Initial
3.5" SS HDD Filler			
	AC1	A594	Initial
ODD Filler			
	AC1	A595	Initial
PSU BLANK			
	AC1	A596	Initial
LCD OP Cable			
	AC1	A597	Initial
8x2.5 Bezel without LCD			
	AC1	A598	Initial
Butterfly 2x LP Bracket			
	AC1	A599	Initial
Butterfly LP+FHHL Bracket			
	AC1	A59A	Initial
Riser1, LP Bracket			
	AC1	A59B	Initial
Riser1 ML Bracket			
	AC1	A59C	Initial
FAN FILLER			
	AC1	A59D	Initial
IBM System x3550 M5 Label GMB			
	AC1	A59E	Initial
System Documentation and Software-US English			
	AC1	A59F	Initial

IBM System x3550 M5 Planar	AC1	A59V	Initial
System x3550 M5 4x 2.5" HS HDD Kit	AC1	A59W	Initial
System x3550 M5 4x 2.5 SS HDD Kit, Non-Raid	AC1	A59Y	Initial
System x3550 M5 10x 2.5" HS HDD Kit	AC1	A5A0	Initial
System x3550 M5 4x 3.5" HS HDD Kit	AC1	A5A4	Initial
System x3550 M5 4x 3.5" SS HDD Kit, Non-Raid	AC1	A5A5	Initial
System x3550 M5 4x 2.5 SS HDD Kit, HW RAID	AC1	A5A6	Initial
System x3550 M5 4x 3.5" SS HDD Kit, HW RAID	AC1	A5A8	Initial
System x Advanced LCD Light Path Kit	AC1	A5AB	Initial
System x3550 M5 PCIe Riser 2, 1 CPU (2xLP,LP x8 CPU0 + LP x8 CPU0)	AC1	A5AC	Initial
System x3550 M5 PCIe Riser 2, 1-2 CPU (FHHL x16 CPU1 + LP x16 CPU0)	AC1	A5AD	Initial
System x3550 M5 PCIe Riser 2, 1 CPU (FHHL x8 CPU0 +LP x8 CPU0)	AC1	A5AE	Initial
System x3550 M5 PCIe Riser 2, 1-2 CPU (LP x16 CPU1 + LP x16 CPU0)	AC1	A5AF	Initial
System x3550 M5 PCIe Riser 1 (1x LP x16 CPU0)	AC1	A5AG	Initial
System x3550 M5 PCIe Riser 1 (1x ML2 x16 CPU0)	AC1	A5AH	Initial
Rear PCI Filler	AC1	A5AM	Initial
ML2 Bracket, RJ45x4	AC1	A5AQ	Initial
ML2 Bracket, RJ45x2	AC1	A5AR	Initial
ML2 Bracket for Emulex VFA5 ML2 Dual Port 10GbE SFP+ Adapter	AC1	A5AS	Initial
ML2 Bracket for Broadcom NetXtreme II ML2 Dual Port 10GbE SFP+	AC1	A5AT	Initial
GPU Power Cable	AC1	A5AU	Initial
IBM System x3550 M5 WW Packaging	AC1	A5AW	Initial
8GB TruDDR4 Memory (1Rx4, 1.2V) PC4-17000 CL15 2133MHz LP RDIMM	AC1	A5B5	Initial
4GB TruDDR4 Memory (1Rx8, 1.2V) PC4-17000 CL15 2133MHz LP RDIMM	AC1	A5B6	Initial
16GB TruDDR4 Memory (2Rx4, 1.2V) PC4-17000 CL15 2133MHz LP RDIMM	AC1	A5B7	Initial
8GB TruDDR4 Memory (2Rx8, 1.2V) PC4-17000 CL15 2133MHz LP RDIMM	AC1	A5B8	Initial
32GB TruDDR4 Memory (4Rx4, 1.2V) PC417000 CL15 2133MHz LP LRDIMM	AC1	A5B9	Initial
Intel Xeon Processor E5-2620 v3 6C 2.4GHZ 15MB Cache 1866MHz 85W	AC1	A5BC	Initial
Intel Xeon Processor E5-2630 v3 8C 2.4GHZ 20MB Cache 1866MHz 85W	AC1	A5BD	Initial
Intel Xeon Processor E5-2640 v3 8C 2.6GHZ 20MB Cache 1866MHz 90W			

Intel Xeon Processor E5-2603 v3 6C 1.6GHz 15MB Cache 1600MHz 85W	AC1	A5BE	Initial
Intel Xeon Processor E5-2609 v3 6C 1.9GHz 15MB Cache 1600MHz 85W	AC1	A5BF	Initial
Intel Xeon Processor E5-2650 v3 10C 2.3GHz 25MB Cache 2133MHz 105W	AC1	A5BG	Initial
Intel Xeon Processor E5-2670 v3 12C 2.3GHz 30MB Cache 2133MHz 120W	AC1	A5BH	Initial
Intel Xeon Processor E5-2680 v3 12C 2.5GHz 30MB Cache 2133MHz 120W	AC1	A5BK	Initial
Intel Xeon Processor E5-2690 v3 12C 2.6GHz 30MB Cache 2133MHz 135W	AC1	A5BL	Initial
Intel Xeon Processor E5-2630L v3 8C 1.8GHz 20MB Cache 1866MHz 55W	AC1	A5BM	Initial
System x Gen-II Universal Slides Kit	AC1	A5BN	Initial
Broadcom NetXtreme 2x10GbE BaseT Adapter for IBM System x	AC1	A5FW	Initial
2U Bracket for Broadcom NetXtreme 2x10GbE BaseT Adapter	AC1	A5GZ	Initial
ServerRAID M1200 Zero Cache/RAID 5 Upgrade for IBM Systems FOD	AC1	A5H0	Initial
Ultrastim 9.5mm SATA DVD-ROM	AC1	A5H5	Initial
Ultrastim 9.5mm SATA Multi Burner	AC1	A5KG	Initial
N2225 SAS/SATA HBA for IBM System x	AC1	A5KH	Initial
N2226 SAS/SATA HBA for IBM System x	AC1	A5M0	Initial
ServerRAID M5225-2GB SAS/SATA Controller for IBM System x	AC1	A5M1	Initial
2U bracket for N2225 SAS/SATA HBA	AC1	A5ND	Initial
IBM 32GB Enterprise Value USB Memory Key	AC1	A5Q6	Initial
IBM 2TB 7.2K 6Gbps NL SATA 3.5" G2HS 512e HDD	AC1	A5R7	Initial
IBM 2TB 7.2K 6Gbps NL SATA 3.5" G2SS 512e HDD	AC1	A5VD	Initial
IBM 3TB 7.2K 6Gbps NL SATA 3.5" G2HS 512e HDD	AC1	A5VE	Initial
IBM 3TB 7.2K 6Gbps NL SATA 3.5" G2SS 512e HDD	AC1	A5VF	Initial
IBM 4TB 7.2K 6Gbps NL SATA 3.5" G2HS 512e HDD	AC1	A5VG	Initial
IBM 4TB 7.2K 6Gbps NL SATA 3.5" G2SS 512e HDD	AC1	A5VH	Initial
IBM 5TB 7.2K 6Gbps NL SATA 3.5" G2HS 512e HDD	AC1	A5VJ	Initial
IBM 5TB 7.2K 6Gbps NL SATA 3.5" G2SS 512e HDD	AC1	A5VK	Initial
IBM 6TB 7.2K 6Gbps NL SATA 3.5" G2HS 512e HDD	AC1	A5VL	Initial
IBM 6TB 7.2K 6Gbps NL SATA 3.5" G2SS 512e HDD	AC1	A5VM	Initial
IBM 2TB 7.2K 12Gbps NL SAS 3.5" G2HS 512e HDD	AC1	A5VN	Initial
IBM 4TB 7.2K 12Gbps NL SAS 3.5" G2HS 512e HDD	AC1	A5VP	Initial
IBM 6TB 7.2K 12Gbps NL SAS 3.5" G2HS 512e HDD	AC1	A5VQ	Initial
	AC1	A5VR	Initial

IBM 2TB 7.2K 12Gbps NL SAS 3.5" G2HS 512e SED	AC1	A5VS	Initial
IBM 4TB 7.2K 12Gbps NL SAS 3.5" G2HS 512e SED	AC1	A5VT	Initial
IBM 6TB 7.2K 12Gbps NL SAS 3.5" G2HS 512e SED	AC1	A5VU	Initial
System Level code	AC1	ARZ6	Initial
ML2 Bracket for Intel I350-T4 ML2 Quad Port GbE Adapter	AC1	ARZ7	Initial
Intel Xeon Processor E5-2699 v3 18C 2.3GHz 45MB Cache 2133MHz 145W	AC1	ARZ8	Initial
IBM 960GB SATA 2.5" MLC G3HS Entry SSD	AC1	AS0J	Initial
2U bracket for x2 mini-SAS HD low profile-external-storage adapters	AC1	AS3L	Initial
Essential Package	AC1	AS66	Initial
Enhanced Package	AC1	AS67	Initial
Elite Package	AC1	AS68	Initial

The following are features already announced for the 5463 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support	CSU
AC1	AC1			Yes
2U Bracket for Emulex 10GbE Virtual Fabric Adapter for IBM System x	AC1	9297	Initial	
System x3550 M5 4x 2.5" HS HDD Kit PLUS	AC1	A59X	Initial	
System x3550 M5 4x 2.5 SS HDD Kit PLUS, Non-Raid	AC1	A59Z	Initial	
System x3550 M5 2x 2.5" HS HDD Rear Kit	AC1	A5A2	Initial	
System x3550 M5 4x 2.5" SS HDD Kit PLUS, HW RAID	AC1	A5A7	Initial	
System x3550 M5 Thermal Kit	AC1	A5AJ	Initial	
IBM System x3550 M5 Slide Kit G4	AC1	A5AK	Initial	
System x Enterprise 1U Cable Management Arm (CMA)	AC1	A5AL	Initial	
COM Port Bracket	AC1	A5AN	Initial	
Lockable Front Bezel	AC1	A5AP	Initial	
System x 550W High Efficiency Platinum AC Power Supply	AC1	A5AX	Initial	
System x 750W High Efficiency Platinum AC Power Supply	AC1	A5AY	Initial	
System x 750W High Efficiency Titanium AC Power Supply (200-240V)	AC1	A5AZ	Initial	
System x 900W High Efficiency Platinum AC Power Supply	AC1	A5B0	Initial	
Addl Intel Xeon Processor E5-2620 v3 6C 2.4GHz 15MB 1866MHz 85W	AC1	A5B5	Initial	
Addl Intel Xeon Processor E5-2630 v3 8C 2.4GHz 20MB 1866MHz 85W	AC1	A5B5	Initial	

Addl Intel Xeon Processor E5-2640 v3 8C 2.6GHZ 20MB 1866MHZ 90W	AC1	A5BT	Initial
Addl Intel Xeon Processor E5-2603 v3 6C 1.6GHZ 15MB 1600MHZ 85W	AC1	A5BU	Initial
Addl Intel Xeon Processor E5-2609 v3 6C 1.9GHZ 15MB 1600MHZ 85W	AC1	A5BV	Initial
Addl Intel Xeon Processor E5-2650 v3 10C 2.3GHZ 25MB 2133MHZ 105W	AC1	A5BW	Initial
Addl Intel Xeon Processor E5-2670 v3 12C 2.3GHZ 30MB 2133MHZ 120W	AC1	A5BX	Initial
Addl Intel Xeon Processor E5-2680 v3 12C 2.5GHZ 30MB 2133MHZ 120W	AC1	A5BZ	Initial
Addl Intel Xeon Processor E5-2690 v3 12C 2.6GHZ 30MB 2133MHZ 135W	AC1	A5C0	Initial
Addl Intel Xeon Processor E5-2630L v3 8C 1.8GHZ 20MB 1866MHZ 55W	AC1	A5C1	Initial
IBM SKLM for System x w/SEDs - FoD per Install w/1Yr S and S	AC1	A5C2	Initial
Addl Intel Xeon Processor E5-2699 v3 18C 2.3GHZ 45MB 2133MHZ 145W	AC1	A5U1	Initial
	AC1	ARZ9	Initial

The following are features already announced for the 5466 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support	CSU
AC1				
2U Bracket for Emulex 10GbE Virtual Fabric Adapter for IBM System x	AC1			Yes
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	AC1	9297	Initial	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	AC1	A5UT	Initial	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	AC1	A5UU	Initial	
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	AC1	A5UV	Initial	
	AC1	AS3M	Initial	

The following are features already announced for the 5466 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support
2U Bracket for Emulex 10GbE Virtual Fabric Adapter for IBM System x	MC1	9297	Initial
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	MC1	A5UT	Initial
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW			

for IBM System x	MC1	A5UU	Initial
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	MC1	A5UV	Initial
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	MC1	AS3M	Initial

The following are features already announced for the 7143 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support	CSU
AC1	AC1			Yes
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	AC1	A5UT	Initial	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	AC1	A5UU	Initial	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	AC1	A5UV	Initial	
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	AC1	AS3M	Initial	

The following are features already announced for the 7143 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support	CSU
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	MC1	A5UT	Initial	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	MC1	A5UU	Initial	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	MC1	A5UV	Initial	
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	MC1	AS3M	Initial	

The following are features already announced for the 7147 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support	CSU
AC1	AC1			Yes
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	AC1	A5UT	Initial	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	AC1	A5UU	Initial	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	AC1	A5UV	Initial	
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for				

IBM System x	AC1	AS3M	Initial
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The following are features already announced for the 7147 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	MC1	A5UT	Initial
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	MC1	A5UU	Initial
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	MC1	A5UV	Initial
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	MC1	AS3M	Initial

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

Description	Model Number	Feature Number	Initial/MES/Both/Support	CSU
AC1	AC1			Yes
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	AC1	A5UT	Initial	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	AC1	A5UU	Initial	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	AC1	A5UV	Initial	
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	AC1	AS3M	Initial	

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

Description	Model Number	Feature Number	Initial/MES/Both/Support
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	MC1	A5UT	Initial
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	MC1	A5UU	Initial
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	MC1	A5UV	Initial
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	MC1	AS3M	Initial

The following are features already announced for the 7160 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support	CSU
AC1	AC1			Yes
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	AC1	A5UT	Initial	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	AC1	A5UU	Initial	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	AC1	A5UV	Initial	
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	AC1	AS3M	Initial	

The following are features already announced for the 7160 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	MC1	A5UT	Initial
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	MC1	A5UU	Initial
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	MC1	A5UV	Initial
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	MC1	AS3M	Initial

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

Description	Model Number	Feature Number	Initial/MES/Both/Support	CSU
AC1	AC1			Yes
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	AC1	A5UT	Initial	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	AC1	A5UU	Initial	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	AC1	A5UV	Initial	
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	AC1	AS3M	Initial	



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

Description	Model Number	Feature Number	Initial/MES/Both/Support
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	MC1	A5UT	Initial
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	MC1	A5UU	Initial
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	MC1	A5UV	Initial
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	MC1	AS3M	Initial

The following are features already announced for the 7912 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support	CSU
AC1	AC1			Yes
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	AC1	A5UT	Initial	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	AC1	A5UU	Initial	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	AC1	A5UV	Initial	
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	AC1	AS3M	Initial	

The following are features already announced for the 7912 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	MC1	A5UT	Initial
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	MC1	A5UU	Initial
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	MC1	A5UV	Initial
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	MC1	AS3M	Initial

The following are features already announced for the 7914 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support	CSU
AC1	AC1			Yes
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	AC1	A5UT	Initial	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	AC1	A5UU	Initial	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	AC1	A5UV	Initial	
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	AC1	AS3M	Initial	

The following are features already announced for the 7914 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	MC1	A5UT	Initial
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	MC1	A5UU	Initial
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	MC1	A5UV	Initial
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	MC1	AS3M	Initial

The following are features already announced for the 7915 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support	CSU
AC1	AC1			Yes
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	AC1	A5UT	Initial	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	AC1	A5UU	Initial	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	AC1	A5UV	Initial	
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	AC1	AS3M	Initial	

The following are features already announced for the 7915 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	MC1	A5UT	Initial
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	MC1	A5UU	Initial
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	MC1	A5UV	Initial
Emulex VFA5 2x10 GbE SFP+ Integrated Adapter for IBM System x	MC1	AS3M	Initial

The following are features already announced for the 8752 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support	CSU
AC1	AC1			Yes
Mellanox ConnectX-3 Pro ML2 2x40GbE/FDR VPI Adapter for IBM System x	AC1	A5RK	Initial	
2U Bracket for Mellanox CX3-Pro ML2 2x40/10GbE/FDR/QDR IB VPI	AC1	A5RL	Initial	
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	AC1	A5UT	Initial	
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	AC1	A5UU	Initial	
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	AC1	A5UV	Initial	

The following are features already announced for the 8752 machine type:

Description	Model Number	Feature Number	Initial/MES/Both/Support
Mellanox ConnectX-3 Pro ML2 2x40GbE/FDR VPI Adapter for IBM System x	MC1	A5RK	Initial
2U Bracket for Mellanox CX3-Pro ML2 2x40/10GbE/FDR/QDR IB VPI	MC1	A5RL	Initial
Emulex VFA5 2x10 GbE SFP+ PCIe Adapter for IBM System x	MC1	A5UT	Initial
Emulex VFA5 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW for IBM System x	MC1	A5UU	Initial
Emulex VFA5 FCoE/iSCSI SW for PCIe Adapter for IBM System x (FoD)	MC1	A5UV	Initial

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