

# New IBM System x3500 M3 and x3650 M3 server models added to IBM Express Portfolio

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## Overview

### IBM Express models



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

The latest System x Express models consist of relevant system configurations for the System x3500 M3 and System x3650 M3 servers.

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

Three-year, customer replaceable unit (CRU) and on-site labor<sup>1</sup>, limited warranty<sup>2</sup>; optional warranty service upgrades available

<sup>1</sup> You may be asked certain diagnostic questions before a technician is sent.

<sup>2</sup> For information on IBM's Statement of Limited Warranty, call 800-IBM-SERV (426-7378) or contact your IBM representative or reseller. Copies are available upon request.

### Feature exchange

None

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## Key prerequisites

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None

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## Planned availability date

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April 29, 2011

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## Description

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### System x3500 M3

Description	Part number
Xeon Processor E5645 2.40 GHz 5.86GTS 12 MB Cache 6C 80w 3 x 4 GB (2Gb, 2Rx8, 1.35V) PC3-10600 CL9 ECC DDR3 1333 MHZ LP RDIMM 2 x 920 watt hot-swap power supplies Advanced Feature Key SATA DVD-ROM optical drive ServerRAID M5015 SAS/SATA Controller with battery	7380E8U

### System x3650 M3

Description	Part number
Xeon Processor E5649 2.53 GHz 5.86 GTS 12 MB Cache 6C 80w 3 x 4 GB (1Rx4, 1.35V) PC3-10600 CL9 ECC DDR3 1333 MHZ LP RDIMM 2 x 460 watt hot-swap power supplies Advanced Feature Key Multiburner optical drive ServerRAID M5015 SAS/SATA Controller with battery	7945E8U

For additional information about this product, refer to the IBM Hardware Announcements listed in the [Reference information](#) section.

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### Accessibility by people with disabilities

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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)

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## Reference information

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### System x3500 M3

Refer Hardware Announcement [111-008](#), dated February 15, 2011, for product information.

Express Offering	Base Offering
7380E8U	7380D2U

The Express Model E8U consists of 7380D2U with the following changes.

Remove:

- M5014 RAID

Add:

- 2 x 4 GB (2Gb, 2Rx8, 1.35V) LP RDIMM memory
- 920 W power supply (redundant)
- ServeRAID™ M5015 SAS/SATA Controller with battery
- Advanced Memory Key Feature

### **System x3650 M3**

Refer Hardware Announcement [111-009](#), dated February 15, 2011, for product information.

Express Offering	Base Offering
7945E8U	794562U

The Express Model E8U consists of 794562U with the following changes.

Remove:

- M5014 RAID

Add:

- 2 x 4 GB (2Rx4, 1.35V) LP RDIMM memory
- 460 W power supply (redundant)
- ServeRAID M5015 SAS/SATA Controller with battery
- Advanced Memory Key Feature
- Multiburner optical drive

### **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=111-067>

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## **Product number**

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### **Express models**

Description	SEO Number
IBM System x3500 M3 Express	7380E8U
IBM System x3650 M3 Express	7945E8U

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## Publications

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For information on publications, refer to the IBM Hardware Announcements listed in the [Reference information](#) section.

### Displayable softcopy publications

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

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## Services

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### Global Technology Services

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

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

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

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

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

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

For details on education offerings related to specific products, visit

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

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

### System x and BladeCenter support services

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

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

- **Continuous system monitoring**  
Electronic monitoring that helps speed up problem-solving with automated, early detection of potential problems and system errors.
- **Hardware maintenance**  
World-class remote and on-site hardware problem determination and repair services.
- **Software technical support**

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

For more information, visit

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

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## Technical information

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### Specified operating environment

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#### *Physical specifications*

#### **System x3500 M3 Express model**

7380-E8U

Processor	Xeon® 6C E5645
Internal speed	2.4 GHZ
External speed	5.86 GTS
Number standard	1
Maximum	2
L3 cache (full-speed)	12 MB
Memory	12 GB ECC
RDIMMs	3 x 4 GB
DIMM sockets	16
Capacity	192 GB
Video	SVGA
memory	16 MB
SAS/SATA RAID controller	M5015 w/battery
Connector internal	2
Connector external	0
HDD	open bay
Total bays	11
5.25-in	3
Hot-swap	8
Internal capacity	4.8 TB
Bays available	10
5.25 in	2
Hot-swap	8
Total PCI slots	7
PCI-E slots	6
32-bit/33 MHz	1
Slots available	5
Integrated management	Standard
Ethernet controllers	10/100/1000 Mb
Ultraslim SATA DVD	1
Power supply	2 x 920 w
Number standard	2
Hot-swap	Yes
Redundant power	Yes
Auto restart	Yes

For additional information on physical specifications for the System x 3500 M3, refer to the appropriate IBM Hardware Announcements listed in the [Reference information](#) section.

#### **System x3650 M3 Express model**

7945E8U

Processor	Xeon 6C E5649 (80w)
Internal speed	2.53 GHZ
External speed	6.4 GTS
Number standard	1
Maximum	2
L3 cache (full-speed)	12 MB
Memory	12 GB ECC

RDIMMs	3 x 4 GB
DIMM sockets	18
Capacity	192 GB
Video	SVGA
Memory	16 MB
SATA controller	SAS/SATA
Channels	4
Connector internal	4
SAS/SATA RAID controller	M5015 w/battery
HDD	
Total bays	9 (standard)
5.25 slim	1
3.5-in tape	0
Hot-swap (3.5-in)	0
Hot-swap (2.5-in)	8 standard
Internal capacity	9.6 TB (with upgrade)
Bays available	9
5.25 slim	1
3.5-in tape	0
Hot-swap (3.5-in)	0
Hot-swap (2.5-in)	8
Total PCI slots	4
PCI_E (x8)	4
System management	Standard
Ethernet controller	Two 1Gb
Optical drive (SATA)	Multiburner
Power supply	2 x 460 W
Number standard	2
Maximum	2
Hot-swap	Yes
Redundant power	Standard
Auto restart	Yes

For additional information on physical specifications for the System x 3560 M3, refer to the appropriate IBM Hardware Announcements listed in the [Reference information](#) section.

### ***Operating environment***

For a complete description of these products, refer to the IBM Hardware Announcements listed in the [Reference information](#) section.

### ***Hardware requirements***

For a complete description of these products, refer to the IBM Hardware Announcements listed in the [Reference information](#) section.

### ***Limitations***

For information on limitations, refer to the IBM Hardware Announcements listed in the [Reference information](#) section.

## **Planning information**

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### ***Customer responsibilities***

This system is designated as customer setup (CSU). CSU allowance is one day.

### ***Cable orders***

For information on planning information, refer to the IBM Hardware Announcements listed in the [Reference information](#) section.

### ***Installability***

The System x3650 M3 server requires about 20 minutes for installation. Installation includes unpacking, setting up, and powering on the system. Additional time is required to install an operating system, additional adapters, or features.

## **Packaging**

For a complete description of these products, refer to the IBM Hardware Announcements listed in the [Reference information](#) section.

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

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For a complete description of these products, refer to the IBM Hardware Announcements listed in the [Reference information](#) section.

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

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## **IBM Electronic Services**

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

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

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

To learn how Electronic Services can work for you, visit

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

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## **Terms and conditions**

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### **IBM Global Financing**

Yes

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

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

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

## **Warranty period**

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- Three years - 7380
- Three years - 7945

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 or supply items and are, therefore, not covered by this warranty:

- 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 IBM's normal service area. Contact your local IBM representative or your reseller for country- and location-specific information.

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

### ***Customer Replaceable Unit (CRU) Service***

IBM provides a replacement CRU to you for you to install. CRU information and replacement instructions are shipped with your machine and are available from IBM at any time on your request. A CRU is designated as being either a Tier 1 (mandatory) or a Tier 2 (optional) CRU. Installation of Tier 1 CRUs, as specified in this announcement, is your responsibility. If IBM installs a Tier 1 CRU at your request, you will be charged for the installation. You may install a Tier 2 CRU yourself or request IBM to install it, at no additional charge, under the type of warranty service 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:

- Air baffles
- Blank filler
- CMOS batteries
- Cable-management arm
- Hard disk drives



- Hot-swap fan
- Hot-swap AC power supply
- Lift handle kit
- Memory DIMM
- Optical drive
- PCI adapter
- Power cord
- Service label
- System label
- Top cover
- Fan bracket
- Hyper visor USB Key
- PCI riser
- RAID card without battery
- Tape drive
- Ethernet daughter card

### ***On-site Service***

At IBM's discretion 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, 9 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-1.ibm.com/servers/support/machine\\_warranties/machine\\_code.html](http://www-1.ibm.com/servers/support/machine_warranties/machine_code.html)

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

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

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

### **Educational allowance**

None

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## **Prices**

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For current prices, contact IBM at 888-Shop-IBM (746-7426) or visit <http://www-03.ibm.com/systems/x/>

### **Single Entity Offerings (SEO)**

Description	SEO Number	Initial/ MES/ Both/ Support	CSU
Configured Systems Offerings			
IBM System x3500 M3	7380E8U	Initial	Yes
IBM System x3650 M3	7380E8U	Initial	Yes

### **Maintenance charges**

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For information on warranty and maintenance, refer to the appropriate IBM Hardware Announcements listed in the [Reference information](#) section.

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

### **IBM Global Financing**

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

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

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

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

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## Order now

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

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

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

Reference: YE001

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

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

### **Trademarks**

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Xeon is a registered trademark of Intel Corporation or its subsidiaries in the United States and other countries.

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

### **Terms of use**

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

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