IBM Express Portfolio is updated to include new IBM System x3100 M4 and x3650 M4 models

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Overview

The information for these models is based on standard models, but is not an exact match.

Review the specifications included in this announcement and in the IBM® Hardware Announcements listed in the Reference information section for specific information regarding technical specifications, warranty, and terms and conditions applicable to these models.

<table>
<thead>
<tr>
<th>New part number</th>
<th>Standard part number</th>
<th>IBM Announcement number</th>
<th>Announcement date</th>
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</thead>
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<td>2582KAG</td>
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<td>7915G2G</td>
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</tbody>
</table>

Key prerequisites

None

Planned availability date

August 21, 2012

Description

Express® models

2582KAG

Processor                Xeon E3-1220v2 4C (69W)
Internal speed          3.1 GHZ
External speed          1600 MHZ
Number standard         1
Maximum                  1
Cache                    8 MB
Memory                   4 GB
DIMMs                    1 x 4 GB
                        (2Rx8, 1.5V, PC3-12800 CL11 ECC DDR3 1600MHZ LP UDIMM)
Sockets UDIMM            4
<table>
<thead>
<tr>
<th>Capacity UDIMM</th>
<th>32 GB</th>
</tr>
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<tbody>
<tr>
<td>Video controller</td>
<td>Integrated in BMC</td>
</tr>
<tr>
<td>Memory</td>
<td>16 MB (shared)</td>
</tr>
<tr>
<td>HDD</td>
<td>2.5&quot; HS SAS/SATA</td>
</tr>
<tr>
<td>HDD controllers</td>
<td>SAS/SATA</td>
</tr>
<tr>
<td>Channels</td>
<td>1</td>
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<tr>
<td>Connector int.</td>
<td>4</td>
</tr>
<tr>
<td>Connector ext.</td>
<td>0</td>
</tr>
<tr>
<td>RAID</td>
<td>M1015</td>
</tr>
<tr>
<td>Fixed disk standard</td>
<td>open-bay 2.5&quot; HS SAS/SATA</td>
</tr>
<tr>
<td>Tape backup</td>
<td>0</td>
</tr>
<tr>
<td>Total bays</td>
<td>10</td>
</tr>
<tr>
<td>5.25/3.5-in half-high</td>
<td>2</td>
</tr>
<tr>
<td>3.5-in slim</td>
<td>0</td>
</tr>
<tr>
<td>2.5-in slim</td>
<td>8</td>
</tr>
<tr>
<td>Hot-swap</td>
<td>8</td>
</tr>
<tr>
<td>Internal capacity</td>
<td>8 TB</td>
</tr>
<tr>
<td>Standard</td>
<td>0</td>
</tr>
<tr>
<td>Bays available</td>
<td>9</td>
</tr>
<tr>
<td>5.25/3.5-in half-high</td>
<td>1</td>
</tr>
<tr>
<td>3.5-in slim</td>
<td>0</td>
</tr>
<tr>
<td>2.5-in slim</td>
<td>8</td>
</tr>
<tr>
<td>Hot-swap</td>
<td>8</td>
</tr>
<tr>
<td>Total slots</td>
<td>4</td>
</tr>
<tr>
<td>PCI 2.2 (32/33 MHz)</td>
<td>0</td>
</tr>
<tr>
<td>PCI-E (x16/x8/x4,x1)</td>
<td>4</td>
</tr>
<tr>
<td>Slots available</td>
<td>3</td>
</tr>
<tr>
<td>Management proc.</td>
<td>IMM2</td>
</tr>
<tr>
<td>Ethernet controller</td>
<td>Dual Gb</td>
</tr>
<tr>
<td>Optical drive (SATA)</td>
<td>Multiburner</td>
</tr>
<tr>
<td>Power supply</td>
<td>430 W</td>
</tr>
<tr>
<td>Number standard</td>
<td>2</td>
</tr>
<tr>
<td>Hot-swap</td>
<td>Yes</td>
</tr>
<tr>
<td>Redundant power</td>
<td>Yes</td>
</tr>
<tr>
<td>Auto restart</td>
<td>Yes</td>
</tr>
</tbody>
</table>

7915-K2G

| Processor | Xeon E5-2650 8C (95w) |
| Internal speed | 2.0 GHZ |
| External speed | 8.0 GTS |
| Number standard | 2 |
| Maximum | 2 |
| L3 cache (full-speed) | 20 MB |
| Memory PC3-12800- | 16 GB ECC LP R DIMM CL11 DDR3 1600MHz) |
| DIMM sockets | 24 |
| Capacity | 384 GB |
| Video | SVGA |
| SAS/SATA RAID controller | M5110e (1GB flash) |
| Channels | 8 |
| Connector internal | 2 |
| Connector external | 0 |
| HDD | open-bay 2.5" HS SAS/SATA |
| Total bays | 10 standard |
| 5.25-in slim | 1 |
| 3.5-in tape | 1 |
| Hot-swap (3.5-in) | 0 |
| Hot-swap (2.5-in) | 8 standard |
| Internal capacity | 16 TB with upgrade |
| Bays available | 9 |
| 5.25-in slim | 0 |
| 3.5-in tape | 1 |
| Hot-swap (3.5-in) | 0 |
| Hot-swap (2.5-in) | 8 |
| Total PCI slots | 6 |
| PCI-E Gen3 x8 FH/FL | 2 |
| PCI-E Gen3 x8 FH/HL | 4 |
| Slots available | 6 |
| PCI-E Gen3 x8 FH/FL | 2 |
| PCI-E Gen3 x8 FH/HL | 4 |
System management Standard
Ethernet controllers 4x 1GB standard
Optical drive (SATA) Multiburner
Power supply 750 W
Number standard 2
Maximum 2
Hot-swap Yes
Redundant power Yes
Auto restart Yes

1 384 GB maximum is based on twenty-four 16 GB RDIMMs when two processors are fitted.

2 The standard system can hold eight 2.5-inch HS HDDs. Maximum capacities are based on installation of sixteen 1 TB HDDs with eight 2.5-inch HDD expansion option fitted. For the latest information on supported HDD options, visit http://www.ibm.com/servers/eserver/serverproven/compat/us/

3 Three PCI-e slots from processor 1. When the second processor is fitted, along with second Riser card, this adds a further three slots: 2x PCI-E Gen3 x8 FH/FL plus 1x PCI-E Gen3 x8 FH/HL.

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

Reference information

Refer to the following IBM Hardware Announcements for product information:

- Hardware Announcement ZG12-0201, dated July 10, 2012
- Hardware Announcement ZG12-0051, dated March 06, 2012

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Product number

<table>
<thead>
<tr>
<th>Description</th>
<th>Machine type</th>
<th>Model</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM System x</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Express Model 3100 M4</td>
<td>2582</td>
<td>KAG</td>
<td>2582KAG</td>
</tr>
<tr>
<td>Express Model 3650 M4</td>
<td>7915</td>
<td>K2G</td>
<td>7915K2G</td>
</tr>
<tr>
<td>2582KAG 1x Xeon E3-1220v2 4C, 3.1GHz 8MB/ 1600 DDR3 (69W), 4GB(1x 4GB (2Rx8, 1.5V 1600MHz) UDIMM), O/B 2.5” HS SAS/SATA, M1015, Multiburner, 2x430W HS PSU</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7915K2G 2x Xeon E5-2650 2.0GHz 20M 8C 1600MHz (95W), 16GB (2x 8GB (2Rx4, 1.5V) 1600MHz LP RDIMM), O/B 2.5” HS SAS/SATA, M5110e(1GB flash), Multiburner, 2x750W HS PSU</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Announcement countries: Refer to the listed countries in the Announcement countries section.

Services

Global Technology Services®

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

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

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

For details on education offerings related to specific products, visit


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

Technical information

Planning information

Customer responsibilities
These systems are designated as customer setup (CSU).

Supplies
None

Security, auditability, and control

For a complete description of each product, refer to the IBM Hardware Announcements 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.

Global Technology Services

Contact your IBM representative for the list of selected services available in your country, either as standard or customized offerings, for the efficient installation, implementation, and/or integration of this product.
Terms and conditions

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

Warranty period

- One year - x3100 M4
- Three years - x3650 M4

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

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

**x3100 M4**
- Battery

**x3650 M4**
- Baffles
- Fillers
- Covers
- Tape bezel chassis
- Slide kits and cable management arms or kits
- Misc parts kit
- Fan bracket kit
- Lift handle kit
- Battery trays and holders
- HDD, 4-slot hot swap kit

Warranty service

If required, IBM provides repair or exchange service depending on the type of warranty service specified below for the machine. IBM will attempt to resolve your problem over the telephone or electronically by access to an IBM website. You must follow the problem determination and resolution procedures that IBM specifies. Scheduling of service will depend upon the time of your call and is subject to parts availability. 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 or a Tier 2
CRU. Installation of a Tier 1 CRU is your responsibility. If IBM installs a Tier 1 CRU, at your request, you will be charged for the installation. You may install a Tier 2 CRU yourself or request IBM to install it, at no additional charge, under the type of warranty service specified below, On-site Service.

Based upon availability, a CRU will be shipped for next-business-day (NBD) delivery. IBM specifies in the materials shipped with a replacement CRU whether a defective CRU must be returned to IBM. When return is required, return instructions and a container are shipped with the replacement CRU, and you may be charged for the replacement CRU if IBM does not receive the defective CRU within 15 days of your receipt of the replacement.

The following have been designated as a Tier 1 CRU:

**x3100 M4**

- Blank filler
- Cable-management arm
- CMOS batteries
- Hard disk drive
- Hot-swap fan
- Hot-swap power supply
- Lift handle kit
- Memory DIMM
- Memory expansion card
- Optical drive
- PCI adapter
- PCI divider
- Power cord
- Service label
- Service processor
- System label
- Top cover
- Voltage regulator module

**x3650 M4**

- 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 w/o Battery
- Tape drive
On-site Service

This provides On-site Repair, 9 hours per day, Monday through Friday excluding holidays, NBD response. IBM or your reseller will repair the failing machine at your location and verify its operation. You must provide a suitable working area to allow disassembly and reassembly of the IBM machine. The area must be clean, well lit, and suitable for the purpose On-site Service is not available in all countries, and some countries have kilometer or mileage limitations from an IBM service center. In those locations where On-site Service is not available, the normal in-county service delivery is used.

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


For more information, refer to Marketing Announcement ZS01-0168, dated September 25, 2001.

ServicePac® service upgrades

The announced hardware products may also be eligible for ServicePac warranty upgrades. ServicePac provides a higher level of service to enhance the base IBM Machine Warranty and a selection of software support services.

ServicePac can be purchased from your IBM Business Partner and are specific to the machines/products listed.

The upgrade level of service is dependant on country.

For a full list of ServicePac offerings and prices, refer to the IBM ServicePac Product Selector Tool.


Announcement countries for ServicePac

Announcement is restricted to the following countries:

- Algeria
- Angola
- Austria
- Bahrain
- Belgium
- Botswana
- Bulgaria
- Croatia
- Czech Republic
- Denmark
• Egypt
• Estonia
• Finland
• France (Except overseas territories)
• Germany
• Greece
• Hungary
• Ireland
• Israel
• Italy
• Jordan
• Kazakhstan
• Kenya
• Kuwait
• Latvia
• Lebanon
• Lithuania
• Libya
• Luxembourg
• Mauritius
• Morocco
• Mozambique
• Netherlands
• Nigeria
• Norway
• Oman
• Pakistan
• Poland
• Portugal
• Qatar
• Romania
• Russia
• Saudi Arabia
• Serbia
• Slovakia
• Slovenia
• South Africa
• Spain
• Sweden
• Switzerland
• Tanzania
• Tunisia
• Turkey
• UK (Mainland only)
• Ukraine.
• United Arab Emirates
Order and registration via Finland.

Maintenance

The products in this document are also covered by Maintenance Agreements and ServiceSuite® contracts.

Licensing

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

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.

Terms and Conditions for Express Seller Products

The designated products are available only as part of the IBM Express Seller program. For full details of the terms and conditions, refer to the Express Seller Program Terms and Conditions applicable to a specific Business Partner.

Note: Copies of the Express Seller Program Terms and Conditions are available locally.

In summary:

- Orders for Express Seller Products must be placed on an order specifically identified as 'Express Seller' and should not contain any other (non-Express Seller) product.
- Orders may only be placed for currently eligible Express Seller products.
- IBM will undertake to deliver products purchased under the terms of the Express Seller program within a specified number of days. For full details of the delivery terms for your country, refer to the Express Seller Program Terms and Conditions.
- Products purchased under this program are eligible for 15 days price protection from the date of shipment. For full details refer to the program terms and conditions.
- There is no accommodation for the return to IBM of any products ordered under the terms of this program.
- Products purchased under the terms of this offering are not available to be sold as part of a special bid.

IBM hourly service rate classification

Two

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


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.

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**Prices**

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Announcement countries

2582KAG
All European, Middle Eastern, and African countries.

7915K2G
All European, Middle Eastern, and African countries excluding the following countries:
- Russia
- Armenia
- Belarus
- Georgia
- Kazakhstan
- Kyrgyzstan
- Ukraine
- Azerbaijan
- Tajikistan
- Turkmenistan
- Uzbekistan

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Corrections

(Corrected on August 15, 2013)
Revised Announcement countries section.