IBM Express Portfolio is updated to include new IBM 6-core 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>
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<tr>
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<th>Standard part number</th>
<th>IBM Announcement number</th>
<th>Announcement date</th>
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<td>7382D2G</td>
<td>ZG12-0218</td>
<td>July 31, 2012</td>
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<td>7382F2G</td>
<td>ZG12-0218</td>
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<td>7160K1G</td>
<td>7160C2G</td>
<td>ZG12-0148</td>
<td>May 14, 2012</td>
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<td>7160G2G</td>
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<td>7158F2G</td>
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Key prerequisites

None

Planned availability date

November 06, 2012

Description

Express® models

7382–K2G

Processor: Xeon E5-2440 6C (95W)
Internal speed: 2.4 GHz
External speed: 7.2 GTS
Number standard: 1
Maximum: 2
L3 cache (full-speed): 15 MB
Memory PC3L-10600-CL9  8 GB ECC RDIMM
DIMM sockets  12
Capacity  192 GB
Video  SVGA
Memory  16 MB
HDD controller  SAS/SATA
Channels  8
Connector internal  2
Connector external  0
RAID controller  M5110 (512MB flash inc RAID5)

HDD
Total bays  6
5.25-in slim optical  1
5.25-in tape  1
Simple-swap (3.5-in)  0
Hot-swap (3.5-in)  4
Hot-swap (2.5-in)  0
Internal capacity  12 TB
Fixed disk standard  Open-bay 3.5" HS SAS/SATA
Bays available  5
5.25-in slim optical  0
5.25-in tape  1
Simple-swap (3.5-in)  0
Hot-swap (3.5-in)  4
Hot-swap (2.5-in)  0
Total PCI_E slots  5
Gen3 x16 (x8 link)  1
Gen3 x8 (x8 link)  1
Gen3 x8 (x4 link)  1
Gen2 x8 (x4 link)  1
Gen2 x4 (x1 link)  1
PCI-E Slots available  4
System management  IMM2 Standard
Ethernet controller  Dual 1 GB
Optical drive (SATA)  Multiburner
Power supply  550W
Number standard  1
Maximum  2
Hot-swap  Yes
Redundant power  Optional
Auto restart  Yes

7382-K3G

Processor  Xeon E5-2440 6C (95W)
Internal speed  2.4 GHz
External speed  7.2 GTS
Number standard  1
Maximum  2
L3 cache (full-speed)  15 MB
Memory PC3L-10600-CL9  8 GB ECC RDIMM
DIMM sockets  12
Capacity  192 GB
Video  SVGA
Memory  16 MB
HDD controller  SAS/SATA
Channels  8
Connector internal  2
Connector external  0
RAID controller  M5110 (512MB flash inc RAID5)

HDD
Total bays  10
5.25-in slim optical  1
5.25-in tape  1
Simple-swap (3.5-in)  0
Hot-swap (3.5-in)  8
Hot-swap (2.5-in)  0
Internal capacity  8 TB
Fixed disk standard: Open-bay 2.5" HS SAS/SATA

Bays available:
- 9 total
- 5.25-in slim optical: 0
- 5.25-in tape: 1
- Simple-swap (3.5-in): 0
- Hot-swap (3.5-in): 0
- Hot-swap (2.5-in): 8

Total PCI_E slots: 5
- Gen3 x16 (x8 link): 1
- Gen3 x8 (x8 link): 1
- Gen3 x8 (x4 link): 1
- Gen2 x8 (x4 link): 1
- Gen2 x4 (x1 link): 1

PCI-E Slots available:
- Gen3 x16 (x8 link): 1
- Gen3 x8 (x8 link): 1
- Gen3 x8 (x4 link): 1
- Gen2 x8 (x4 link): 1
- Gen2 x4 (x1 link): 1

System management: IMM2 Standard

Ethernet controller: Dual 1 GB

Optical drive (SATA): Multiburner

Power supply: 550 W
- Number standard: 1
- Maximum: 2
- Hot-swap: Yes
- Redundant power: Optional
- Auto restart: Yes

Processor: Xeon E5-2420 6C (95W)
- Internal speed: 1.9 GHz
- External speed: 7.2 GTS
- Number standard: 1
- Maximum: 2
- L3 cache (full-speed): 15 MB
- Memory PC3L-10600-CL9: 8 GB ECC RDIMM
- DDR3 1333MHz RDIMMs: 1x 8 GB (2Gb,2Rx4,1.35V)
- DIMM sockets: 12
- Capacity: 192 GB

Video: SVGA

HDD: 3.5" HS SAS/SATA
- Capacity: 12 TB

HDD controller: SAS/SATA
- Channels: 8
- Connector internal: 2
- Connector external: 0

RAID controller: M5110 (512MB flash inc RAID5)

Fixed disk standard: Open-bay 3.5" HS SAS/SATA

Total bays:
- 4
- 5.25 slim: 0
- 3.5-in tape: 0
- Hot-swap (3.5-in): 4
- Hot-swap (2.5-in): 0
- Internal capacity: 12 TB

Bays available:
- 4
- 5.25 slim: 0
- 3.5-in tape: 0
- Hot-swap (3.5-in): 4
- Hot-swap (2.5-in): 0

Total PCI slots:
- 2
- PCI_E Gen3 x16: 1
- (FH/HL or LP)
  - PCI_E Gen3 x8 LP: 1
  - Slots available: 2
  - PCI_E Gen3 x16: 1
- (FH/HL or LP)
  - PCI_E Gen3 x8 LP: 0

System management: Standard

Ethernet controller: 2x 1GB standard

Optical drive (SATA): None

Power supply: 460 W
- Number standard: 1
- Maximum: 2
Hot-swap: Yes
Redundant power: optional
Auto restart: Yes

7160-K4G

Processor: Xeon E5-2440 6C (95W)
Internal speed: 2.4 GHz
External speed: 7.2 GTS
Number standard: 1
Maximum: 2
L3 cache (full-speed): 15 MB
Memory: PC3L-10600-CL9 8 GB ECC RDIMM
DDR3 1333MHz RDIMMS 1x 8 GB (2Gb,2Rx4,1.35V)
DIMM sockets: 12
Capacity: 192 GB
Video: SVGA
Memory: 16 MB
HDD: 2.5" HS SAS/SATA
HDD controller: SAS/SATA
Channels: 8
Connector internal: 2
Connector external: 0
RAID controller: M5110 (512 MB flash inc RAID5)
Fixed disk standard: Open-bay 2.5" HS SAS/SATA
Total bays: 9
5.25 slim: 1
3.5-in tape: 0
Hot-swap (3.5-in): 0
Hot-swap (2.5-in): 8
Internal capacity: 8 TB
Bays available: 8
5.25 slim: 0
3.5-in tape: 0
Hot-swap (3.5-in): 0
Hot-swap (2.5-in): 8
Total PCI slots: 2
PCI_E Gen3 x16: 1
(FH/HL or LP)
PCI_E Gen3 x8 LP: 1
Slots available: 1
PCI_E Gen3 x16: 1
FH/HL or LP)
PCI_E Gen3 x8 LP: 0
System management: Standard
Ethernet controller: 2x 1GB standard
Optical drive (SATA): Multiburner
Power supply: 675 W
Number standard: 1
Maximum: 2
Hot-swap: Yes
Redundant power: Optional
Auto restart: Yes

7158-K2G

Processor: Xeon E5-2430 6C (95W)
Internal speed: 2.2 GHz
External speed: 7.2 GTS
Number standard: 1
Maximum: 2
L3 cache (full-speed): 15 MB
Memory: PC3L-10600-CL9 8 GB ECC RDIMM
DDR3 1333MHz RDIMMS 1x 8 GB (2Gb,2Rx4,1.35V)
DIMM sockets: 12
Capacity: 192 GB
Video: SVGA
Memory: 16 MB
HDD: 3.5" HS SAS/SATA
HDD controller: SAS/SATA
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<td>RAID controller</td>
<td>M5110 (512MB Flash inc RAID5)</td>
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<td>Total bays</td>
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<td>5.25 slim</td>
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<td>3.5-in tape</td>
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7158-K3G

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<td>DDR3 1333MHz RDIMMS</td>
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<td>PCI_E x4 slotless</td>
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Slots available 4
PCI_E Gen3 x8 FH/FL 2
PCI_E Gen3 x8 FH/HL 2
PCI_E x4 slotless 0
System management Standard
Ethernet controller 2x 1GB standard
Optical drive (SATA) None
Power supply 750 W
  Number standard 1
  Maximum 2
  Hot-swap Yes
  Redundant power Optional
  Auto restart Yes

1 192 GB maximum is based on 12x 16 GB RDIMMs when 2 processors fitted.
2 Based upon 4x 3TB 3.5-inch 7K2 6 Gbps NL SATA Gen2 HDD.
3 Based on installation of 8x 1TB 2.5-inch 7K2 6 Gbps NL SAS or SATA HDDs.
For the latest information on supported HDD options, visit http://www.ibm.com/servers/eserver/serverproven/compat/us/

4 Full Height / Full Length slot.
5 Full Height / Half Length slot.
6 Additional Gen3 x8 (x8 link) Full Height / Half Length slot when second processor is fitted.
7 Additional 2x 1 GB available via optional FoD.
8 x16 mechanical, x8 electrical.
9 x8 mechanical, x4 electrical used for hardware RAID cards.
10 There is no optical bay for 3.5-inch models.
11 Based upon 8x 3 TB 3.5-inch 7K2 6 Gbps NL SAS/SATA Gen2 HDDs.
12 The capability can be upgraded to 4x 1 GB via purchase of Feature On Demand option.
13 x16 mechanical, x8 electrical.
14 There is no optical bay for 12x HDD models.
15 Based upon 12x 3 TB 3.5-inch 7K2 6 Gbps NL SAS/SATA Gen2 HDDs.

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

For product information, refer to the following IBM Hardware Announcements :

- Hardware Announcement ZG12-0218, dated July 31, 2012
- Hardware Announcement ZG12-0148, dated May 14, 2012
- Hardware Announcement ZG12-0149, dated May 14, 2012
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<td>7382K2G 1x Xeon E5-2440 2.4GHz 15M 6C 1333MHz (95W), 8GB (1x 8GB (2Rx4, 1.35V) 1333MHz LP RDIMM), O/B 3.5&quot; HS SAS/SATA, M5110 (512MB flash), Multiburner, 1x550W HS PSU</td>
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<td>7382K3G 1x Xeon E5-2440 2.4GHz 15M 6C 1333MHz (95W), 8GB (1x 8GB (2Rx4, 1.35V) 1333MHz LP RDIMM), O/B 2.5&quot; HS SAS/SATA, M5110 (512MB flash), Multiburner, 1x550W HS PSU</td>
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<tr>
<td>x3530 M4</td>
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<tr>
<td>7160K1G 1x Xeon E5-2420 1.9GHz 15M 6C 1333MHz (95W), 8GB (1x 8GB (2Rx4, 1.35V) 1333MHz LP RDIMM), O/B 3.5&quot; HS SAS/SATA(4), M5110 (512MB flash), No Optical, 1x460W HS PSU</td>
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<td>7160K4G 1x Xeon E5-2440 2.4GHz 15M 6C 1333MHz (95W), 8GB (1x 8GB (2Rx4, 1.35V) 1333MHz LP RDIMM), O/B 2.5&quot; HS SAS/SATA, M5110 (512MB flash), Multiburner, 1x675W HE HS PSU</td>
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<td>7158K2G 1x Xeon E5-2430 2.2GHz 15M 6C 1333MHz (95W), 8GB (1x 8GB (2Rx4, 1.35V) 1333MHz LP RDIMM), O/B 3.5&quot; HS SAS/SATA, M5110 (512MB flash), Multiburner, 1x550W HS PSU</td>
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<td>7158K3G 1x Xeon E5-2440 2.4GHz 15M 6C 1333MHz (95W), 16GB (2x 8GB (2Rx4, 1.35V) 1333MHz LP RDIMM), O/B 3.5&quot; HS SAS/SATA, M5110 (512MB flash), No Optical, 1x750W HS PSU</td>
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**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.

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

Three years.

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 is feature 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.
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:

x3300 M4

- DDR3-1333 Memory
- Memory expansion card
- Hard disk drive
- Hot-swap power supply
- Optical drive
- PCI adapter
- PCI divider
- CMOS battery
- Misc Kit
- SAS Cable (430R)
- IAS Cable (680R)
- SAS Cable (450R)
- Backplane signal Y cable for Norton (3.5 inches)
- SAS 700MM Cable
- Backplane signal Y cable for Raptor (2.5 inches) I2C Y CBL ASM
- Front IO module
- Simple swap back plate
- Hot-Swap SAS/SATA cage 8x2.5 inches
- Redundant Power Cage
- Power SMBUS Cable
- 24-inch SATA Cable
- NVIDIA Quadro 600
- NVIDIA Quadro 2000
- Half-High SATA DVD-ROM
- Half-High SATA Multi-Burner
- 550W Redundant PSU
- 750W High Efficiency Platinum AC Power Supply
- 8GB (2Gb 2Rx4) PC3L-10600R-999 RDIMM
- 16GB (2Gb, 4Rx4) RDIMM
- 2GB (1x2GB, 1Rx8, 1.35V) UDIMM
- 4GB (2Gb 2Rx8) UDIMM
- 2GB (2Gb, 1Rx8) RDIMM
- 4GB (2Gb, 1Rx4) RDIMM
- 4GB (2Gb, 2Rx8) RDIMM
- 4GB (2Gb 1Rx4) DIMM
- 16GB (1x16GB, 2Rx4, 1.35V) PC3L-10600 CL9 ECC DDR3 1333MHz LP RDIMM
- Backplane
- CMA, 2U/4U
- 4U Rack Kit
- ServeRAID M1115 SAS/SATA Controller
- ServeRAID M5120
- ServeRAID H1110 SAS/SATA Controller
- Power Converter from Raptor to Norton Cable
- 900GB HD
- 300GB HD
- 1TB 7.2K 6Gbps NL SAS 2.5-inch SFF HS HDD
- 1TB 7.2K 6Gbps NL SATA 2.5-inch SFF HS HDD
- 500GB 7.2K 6Gbps SATA 3.5-inch HDD
- 2TB 7.2K 6Gbps SATA 3.5-inch HDD
- 3TB 7.2K 6Gbps SATA 3.5-inch LFF Gen-II HS HDD
- 500GB 7.2K 6Gbps SATA 3.5-inch SS HDD
- 2TB 7.2K 6Gbps SATA 3.5-inch SS HDD
- 3TB 7.2K 6Gbps SATA 3.5-inch LFF Gen-II SS HDD
- Dual Port 10GbE Adapter
- 8GB(2Gb, 2Rx4)
- 4GB(2Gb 2Rx8)
- ServeRAID M5110
- Backplane ASM
- PCI-X interposer conversion Riser Card
- 1TB 3.5-inch HDD
- 2TB 7.2K 6Gbps SAS 3.5-inch PI HDD
- 256GB SSD, 6Gbps SATA 2.5-inch SFF Slim
- 128GB SSD, 6Gbps SATA 2.5-inch SFF Slim
- 600GB HDD, 10K 6Gbps SAS 2.5-inch SFF G2 HS
- 300GB HDD, 10K 6Gbps SAS 2.5-inch SFF G2 HS
- 146GB 15K 6Gb SAS (Gen2)
- 500GB 7.2K 6Gb SAS (Gen2)
- Broadcom NetXtreme I Quad Port GbE Adapter
- Broadcom NetXtreme I Dual Port GbE Adapter
- Raptor_CR2 Backplane
- 460W Fixed PSU
- Emulex 10GbE Virtual Fabric Adapter III
- USB/Lightpath cable bracket asm

The following parts have been designated as Tier 2 CRUs:

- YA Heatsink
- Planar
- CPU board
- Additional CPU Mech kit
- CPU Extraction Tool
- Intel Xeon™ Processor E5-2470 8C 2.3GHz 20MB Cache 1600MHz 95W
- Intel Xeon Processor E5-2450 8C 2.1GHz 20MB Cache 1600MHz 95W
- Intel Xeon Processor E5-2440 6C 2.4GHz 15MB Cache
- Intel Xeon Processor E5-2430 6C 2.2GHz 15MB Cache 1333MHz 95W
- Intel Xeon Processor E5-2407 4C 2.2GHz 10MB Cache 1066MHz 80W
- Intel Xeon Processor E5-2403 4C 1.8GHz 10MB Cache 1066MHz 80W
- E5-1403 2C 2.6GHz 5MB Cache 1066MHz 80W
- E5-1407 2C 2.8GHz 5MB Cache 1066MHz 80W
- Intel Xeon Processor E5-2450L 8C 1.8GHz 20MB Cache 1600MHz 70W
- E5-2430L 6C 2.0GHz 15MB Cache 1333MHz 60W
- Redundant Power Kit

The following parts have been designated as Structural:

- Tower Bezel Kit
- Rack kit
- Label GBM
- Chassis base
- Chassis Top
- Chassis Left
- Air Duct
- Bezel blanks
- 2.5-inch HS HDD Filler
- 3.5-inch HS Filler
- 3.5-inch SS Filler
- PSU Filler
- EMC shield kit
- SS EMC Plate Kit
- Filler, 5.25-inch drive bay
- Filler, 2.5-inch cage filler
- Filler, 3.5-inch cage filler
- Filler, rack kit
- Filler, power supply bay
- Foot kit, rear
- Foot kit, stabilizer, front
- Remote RAID battery tray
- Keylock assembly, universal
- Keylock assembly
• Cover, right-side
• Cover, left-side
• Cover, top
• Bezel, rack
• Cable bracket asm
• Simple-swap fan cage asm
• Fan cage/guide arm Asm
• Opt wheel USB
• 120mm Fan Asm
• Power cord
• Rack bezel asm
• Key card asm
• W2008 CDs
• Keyboards
• USB/Lightpath cable bracket asm

**Structural parts:** Purchase and replacement of structural parts (components, such as chassis assembly, top cover, and bezel) is customer responsibility. If IBM acquires or installs a structural component at your request, you will be charged for the service.

**x3530 M4**

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

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

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

• System Planar Board
• Processors (CPUs)/Heatsink

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

• CMOS batteries
• Hard disk drives
• System fan
• 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/backplate

**x3630 M4**

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

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

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

• System Planar Board
• Processors (CPUs)/Heatsink

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

• CMOS batteries
• Hard disk drives
• System fan
• Power supply
• Memory DIMM
- Optical drive
- PCI adapter
- Power cord
- Service label
- System label
- Hyper visor USB key
- PCI riser
- RAID card
- Tape drive
- Ethernet daughter card
- Backplanes/backplate

**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 at

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.

**IBM Electronic Services**

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

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Prices

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Announcement countries

7158K3G only

The following countries only:

- Russia
- Armenia
- Belarus
- Georgia
- Kazakhstan
- Kyrgyzstan
- Ukraine
- Azerbaijan
- Tajikistan
- Turkmenistan
- Uzbekistan
- Israel


The following countries only:

- Russia
- Armenia
- Belarus
• Georgia
• Kazakhstan
• Kyrgyzstan
• Ukraine
• Azerbaijan
• Tajikistan
• Turkmenistan
• Uzbekistan

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**Corrections**

*(Corrected on August 12, 2013)*
Revised Announcement countries section.