IBM BladeCenter HS22 options

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At a glance

New options are available for the IBM® BladeCenter® HS22.
For technical support:

• Call the IBM Support Center at 800-IBM-SERV (426-7378)
  or
• Request technical information via the Web site at
  http://www.ibm.com/pc/support

Overview

A new option is now supported on the IBM BladeCenter HS22:

• 2 GB (1x2GB) Dual Rank PC3-10600 CL9 ECC DDR3-1333 VLP LP RDIMM

In addition, the following options are now supported on the IBM BladeCenter HS22:

• VMware ESXi 3.5 Update 4 on USB Drive
• ServeRAID-MR10ie (CIOv) Controller for IBM BladeCenter
  – The ServeRAID-MR10ie (CIOv) Controller for IBM BladeCenter (46C7167) does not support the use of SATA or SSD drives on the blade.

Key prerequisites

For details, refer to the Hardware requirements section.

Planned availability date

June 19, 2009

Product number

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<td>IBM BladeCenter HS22</td>
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<tr>
<td>2 GB (1x2GB) Dual Rank PC3-10600 CL9 ECC DDR3-1333</td>
<td>44T1486</td>
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VLP LP RDIMM

The MES entries for MT 7870 - HS22

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<td>AC1</td>
<td>1916</td>
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<td>AC1</td>
<td>1774</td>
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<td>ServeRAID-MR10ie (CIOv) Controller for IBM BladeCenter with battery</td>
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<td>AC1</td>
<td>0070</td>
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Technical information

Product name

IBM BladeCenter HS22 Options

Operating environment

Temperature: 10 to 35 (C) 50 to 90 (F) at 0 to 914 m

Relative humidity: 8% to 80% noncondensing

These systems support or comply with the following standards:

- Peripheral Component Interconnect (PCI) specification 2.2
- Hardware-enabled to meet the International Organization for Standardization (ISO) 9241, Part 3

Equipment approvals and safety

- FCC - Verified to comply with Part 15 of the FCC Rules, Class B
- Canada ICES-003, issue 4, Class B
- UL/IEC 60950-1 :2001
- CSA C22.2 No. 60950-1-03

Energy Star compliance

Is this product Energy Star Compliant? No

Note: The Energy Star emblem does not represent EPA endorsement of any product or service.

Hardware requirements

These options are supported on the IBM BladeCenter HS22.

Software requirements

These options are supported by the same operating systems and application software as the system in which it is installed.

Compatibility

For latest compatibility information, visit

Note: Some configurations may not be compatible.

Limitations
The ServeRAID-MR10ie (CIOv) Controller for IBM BladeCenter (46C7167) does not support the use of SATA or SSD drives on the blade.

Planning information
Additional cable orders required: No

Packaging
One box

Shipment group
• 2 GB (1x2GB) Dual Rank PC3-10600 CL9 ECC DDR3-1333 VLP LP RDIMM
• Installation publication and warranty
• Safety Flyer

Security, auditability, and control
This product uses the security and auditability features of the host hardware, host software, and application software.

Terms and conditions

<table>
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<th>Terms and conditions</th>
<th>Features and options only</th>
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<tr>
<td>Field installable</td>
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<td>Customer setup</td>
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<td>Licensed programs</td>
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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 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 delivery. IBM specifies in the materials shipped with a replacement CRU whether a defective CRU must be returned to IBM. When return is required:

1. Return instructions and a container are shipped with the replacement CRU, and
2. 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 has been designated as a Tier 1 CRU: 2 GB (1x2GB) Dual Rank PC3-10600 CL9 ECC DDR3-1333 VLP LP RDIMM (44T1486).

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


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 Web site

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.

Note: Programs included with this product are licensed under the terms and conditions of the License Agreements that are shipped with the feature or option.

All other terms and conditions are the same as those applicable to the IBM machine type in which the feature is installed.

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

In the United States, call 800-426-7378, or write to: Warranty Information, P.O. Box 12195, RTP, NC, 27709, Attn: Dept UF2A/B203.

Help and service information -- Features and options

During the warranty period, support for a warranty related issue can be obtained by accessing IBM's online services (requires Internet access account, not included) or calling the IBM Support Center 24 hours a day, 7 days a week, to answer any questions regarding your new IBM option. Response time will vary depending on the number and nature of calls received. If you need warranty service, return or exchange is available. In addition, if your IBM option is installed in an IBM computer, you may be entitled to service at your location. For general questions related to the use of your options, fee-based support is available. Your technical support representative can help you determine the best alternative.

Accessing IBM online services

Visit

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

Placing the call to IBM

Within the United States, call the IBM Support Center at 800-426-7378.
Prices

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

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

Options SEOs

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http://www.ibm.com/financing

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