IBM 42U and 47U 1200mm Deep Static and 42U 1200mm Deep Dynamic Racks for System x

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At a glance

These IBM® 42U and 47U Racks and Expansion Racks are industry-standard 19-inch racks that support IBM BladeCenter® and rack-mountable IBM System x® servers and options. They enable you to set up a high-powered IT solution with the minimum amount of floor space.

Overview

The IBM 42U Dynamic Racks

The IBM 42U 1200mm Deep Dynamic Rack is an industry-standard 19-inch rack that supports BladeCenter and rack-mountable System x servers and options.

42U and 47U Static Racks

The IBM 42U and 47U 1200mm Deep Static Racks are industry-standard 19-inch racks that support BladeCenter and rack-mountable System x servers and options.

The IBM 42U and 47U 1200mm Deep Static Expansion Racks are industry-standard 19-inch racks that complement the IBM Static Racks with additional rack-mounting space.

IBM 42U and 47U Static and Dynamic Racks

These 42U and 47U racks conform to the EIA-310-D industry standard for 19-inch, type A rack cabinets, and the 42U Dynamic racks have outriggers (stabilizers) allowing for movement of even large loads. Features include:

- A perforated front door allows for air flow.
- Six side-wall compartments support 1U-high power distribution units (PDUs) and switches without taking up valuable rack space.
- Cable management rings are included with the rack for customers to use for cable management.
- Easy to install and remove side panels are a standard feature on the 4PX models.
- The front door can be hinged on either side, providing flexibility to open in either direction.
- Split rear doors improve access and serviceability.
- Front and rear doors and side panels include locks and keys to help secure servers.
- Heavy duty casters with the use of outriggers (stabilizers) come with the 42U Dynamic Racks for added stability, allowing movement of even large loads.
• Tool-less 0U PDU rear channel mounting reduces installation time and increases accessibility.

These 42U and 47U Static and Dynamic Racks provide an excellent solution for creating rack suites to economically support multiple servers and supporting devices.

The Expansion Racks contain the same features as the 42U and 47U Racks with the exception that, as an expansion cabinet, they do not require or include side panels. Instead of side panels, they include rack attachment hardware as a standard feature to simplify:

• Ordering
• Shipping
• Installation
• Setup of complex rack-suite or baying installations

Also being announced

Custom Integration - Rochester

Custom Integration - Rochester is a special post-manufacturing service performed on e1350 Linux Cluster Solutions to complete the solution with the integration of preloaded operating system (OS) software, installation of customer-provided images, and/or the configuration of the loaded OS and Applications. This work is performed by Certified IBM Linux Cluster Specialists and is billed on a per-hour basis.

For information on IBM's Statement of Limited Warranty, contact your local IBM representative. Copies are available upon request.

Key prerequisites

None

Planned availability date

September 24, 2010
Description

IBM 42U 1200mm Deep Static and Dynamic Racks

These racks include everything needed to set up a high-powered IT solution with the minimum amount of floor space. They enable comprehensive rack solutions that are ready to deploy.

The Static and Dynamic Racks feature:

- Lockable doors and side panels that all use the same key
- Thermal optimization for sustained performance
- Solid top with cable passthru access holes
- Heavy-duty casters to help safely move large loads in the rack
- A split rear door for easy access for serviceability

IBM 47U 1200mm Deep Static Rack

This rack includes everything needed to set up a high-powered IT solution with the minimum amount of floor space. It enables comprehensive rack solutions that are ready to deploy.

IBM 42U and 47U 1200mm Deep Expansion Racks

The Expansion Racks complement the Static and Dynamic Racks with additional rack-mounting space.

**Maximum scalability:** These new rack platforms are designed for complex applications needed for your business today.

**Accessibility by people with disabilities**

A U.S. Section 508 Voluntary Product Accessibility Template (VPAT) containing details on the products' accessibility compliance can be requested at

http://www-03.ibm.com/able/product_accessibility/index.html
Product positioning

The IBM 42U and 47U Static and 42U Dynamic Racks and the IBM 42U and 47U Expansion Racks are positioned as IBM’s high-end rack cabinet offerings.

The 42U Deep Dynamic Rack solutions deliver a higher level of structure ruggedness to support relocating (when outriggers (stabilizers) are attached) full rack configurations within the enterprise location.

Product number

<table>
<thead>
<tr>
<th>Description</th>
<th>Machine</th>
<th>Model</th>
<th>Option part number</th>
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<tbody>
<tr>
<td>IBM 42U 1200mm Deep Dynamic Rack</td>
<td>9360</td>
<td>4PX</td>
<td>93604PX</td>
</tr>
<tr>
<td>IBM 42U 1200mm Deep Dynamic Expansion Rack</td>
<td>9360</td>
<td>4EX</td>
<td>93604EX</td>
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<td>4PX</td>
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<tr>
<td>IBM 47U 1200mm Deep Static Rack</td>
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<td>4PX</td>
<td>93624PX</td>
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<td>IBM 47U 1200mm Deep Static Expansion Rack</td>
<td>9362</td>
<td>4EX</td>
<td>93624EX</td>
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</table>

Options

Note: The following are not related to the other products in this announcement. This announcement is being used to release options.

The following are Pseudo Options.

- Advanced Grouping: 59Y8118
- System x Cluster Upgrade: 59Y8120

Publications

An installation and user's guide, and safety and warranty publications are shipped with each rack. The following publications are available immediately.

<table>
<thead>
<tr>
<th>Title</th>
<th>Part number</th>
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<tbody>
<tr>
<td>Unpack instructions for Static</td>
<td>68Y9609</td>
</tr>
<tr>
<td>Unpack instructions for Dynamic</td>
<td>68Y9610</td>
</tr>
<tr>
<td>User guide on CD for Static</td>
<td>68Y9590</td>
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<tr>
<td>User guide on CD for Dynamic</td>
<td>68Y9593</td>
</tr>
<tr>
<td>Important Notices Manual for Static</td>
<td>68Y9589</td>
</tr>
<tr>
<td>Important Notices Manual for Dynamic</td>
<td>68Y9592</td>
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The IBM 42U and 47U 1200mm Deep Static and 42U 1200mm Deep Dynamic Racks each comes with its own *Installation and User's Guide* in U.S. English, which is also available at


The *IBM Dynamic Rack Installation and User's Guide* and *Hardware Maintenance Manual*, in U.S. English versions, are available from


42U and 47U Deep Static Racks:

<table>
<thead>
<tr>
<th>Title</th>
<th>Order number</th>
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<tbody>
<tr>
<td></td>
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IBM 42U and 47U 1200 mm Deep Static Rack and Expansion Rack Installation Guide 60Y1415

IBM 42U and 47U 1200 mm Deep Static and Expansion Racks Unpacking Instructions 68Y9609

42U Deep Dynamic Racks:

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<td>IBM 42U 1200 mm Deep Dynamic Rack and Expansion Rack Installation Guide</td>
<td>60Y1416</td>
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<tr>
<td>IBM 42U 1200 mm Deep Dynamic Rack and Expansion Rack Unpacking Instructions</td>
<td>68Y9610</td>
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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 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.

Technical information

Specified operating environment

Physical specifications

External dimensions

IBM 47U 1200mm Deep Static Rack - 9362-4PX

- Height: 2223 mm (87.5 in)
- Width: 605 (23.8 in)
- Depth: 1200 mm (47.2 in)
- Weight: 150 kg (331 lb)

IBM 47U 1200mm Deep Static Expansion Rack - 9362-4EX

- Height: 2223 mm (87.5 in)
- Width: 600 (23.6 in)
- Depth: 1200 mm (47.2 in)
- Weight: 110 kg (243 lb)

IBM 42U 1200mm Deep Dynamic Rack - 9360-4PX

- Height: 2003 mm (78.9 in)
- Width: 605 (23.8 in)
- Depth: 1200 mm (47.2 in)
- Weight: 165 kg (363 lb), weight includes outriggers

IBM 42U 1200mm Deep Static Expansion Rack - 9361-4EX

- Height: 2000 mm (78.7 in)
- Width: 600 mm (23.6 in)
- Depth: 1200 mm (47.2 in)
- Weight: 104 kg (229 lb)

IBM 42U 1200mm Deep Dynamic Rack - 9360-4PX

- Height: 2003 mm (78.9 in)
- Width: 605 (23.8 in)
- Depth: 1200 mm (47.2 in)
- Weight: 165 kg (363 lb) weight includes outriggers

IBM 42U 1200mm Deep Dynamic Expansion Rack - 9360-4EX

- Height: 2003 mm (78.9 in)
- Width: 600 mm (23.6 in)
- Depth: 1200 mm (47.2 in)
- Weight: 128 kg (282 lb), weight includes outriggers

**Standards**

**Agency approvals**

The IBM 42U and 47U 1200mm Deep Static and 42U Dynamic Racks adhere to the following safety and agency approval requirements:

- UL 60950-1
- CSA C22.2 No. 60950-1-07

**Planning information**

**Customer responsibilities**

This product is designated as customer setup. Customer setup instructions are shipped with the product.

**Cable orders**

No cables are required.

**Installability**

Each rack requires approximately 20 minutes for installation.

**Packaging**
<table>
<thead>
<tr>
<th>Product</th>
<th>Package description</th>
<th>Boxes</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM 1200mm Deep Static Rack</td>
<td>IBM 42U Rack Carton</td>
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</tr>
<tr>
<td>IBM 1200mm Deep Dynamic Rack</td>
<td>IBM 42U Rack Carton</td>
<td>1</td>
</tr>
<tr>
<td>IBM 1200mm Deep Static Rack</td>
<td>IBM 47U Rack Carton</td>
<td>1</td>
</tr>
</tbody>
</table>

IBM 42U Rack box contains:
- 42U rack cabinet and keys
- Front stabilizer plate
- Miscellaneous mounting hardware
- Installation and safety publications with Warranty

IBM 47U Rack box contains:
- 47U rack cabinet and keys
- Front stabilizer plate
- Miscellaneous mounting hardware
- Installation and safety publications with Warranty

The rack is shipped in a single package.

Approximate shipping dimensions and weights:

42U Static or Dynamic Rack model
- Height: 2248 mm (88.5 in)
- Width: 699 mm (27.5 in)
- Depth: 1251 mm (49.3 in)
- Weight: 157 kg (346 lb)

47U Static Rack model
- Height: 2362 mm (93.0 in)
- Width: 750 mm (29.5 in)
- Depth: 1251 mm (49.3 in)
- Weight: 165 kg (364 lb)

**Supplies**

**For end users**

IBM 42U and 47U 1200mm Deep Static and Dynamic Racks can be purchased from dealers around the world.

For information about Priority Fulfillment Services Europe distribution channels, call +31-433-502-756.

Other country-specific numbers can be found at [http://www.ibm.storage.com/media](http://www.ibm.storage.com/media)

**Security, auditability, and control**

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.
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

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

Terms and conditions

Field-installable feature
Yes

Warranty period
Three years

Customer setup
Yes

Machine code
No license terms apply

Warranty period

• 9360: Three years
• 9361: Three years
• 9362: Three years
• Options: One year

Optional IBM features initially installed in an IBM machine carry the same warranty period as the machine. If installed after the initial machine installation, they carry the balance of the machine warranty or the optional feature warranty, whichever is greater.
The following have been designated as consumables or supply items and are, therefore, not covered by this warranty:

- Battery

## 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 Web site. 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 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 parts are designated as Tier 1 CRUs:

- 42U Right Rear Door
- 42U Left Rear Door
- 42U Front Door
- 47U Right Rear Door
- 47U Left Rear Door
- 47U Front Door
- Door latch
- Keys
- Cable management bracket
- Hardware kit
- 1200mm deep lower side panel for Dynamic Rack
- Tailbar kit
- Front anti-tip plate

### 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-country service delivery is used.

**International Warranty Service**

International Warranty Service (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 on IWS, refer to Services Announcement ZS01-0168, 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.

**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.

**Licensed Internal Code and Licensed Machine Code**

This product does not contain Licensed Internal Code or Licensed Machine Code.

**Pricing**

For all local charges, contact your IBM representative.

The following are newly announced features on the specified models of the IBM System x 9362 machine type:
IBM Global Financing

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.

Announcement countries

All European, Middle Eastern, and African countries.

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http://www.ibm.com/planetwide/