



IBM PureFlex System 42U Rack, PureFlex System 42U Expansion Rack, and PureFlex Rack Door Kit support IBM Flex Systems, System x servers, and BladeCenter systems

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At a glance

The IBM® PureFlex™ System 42U Rack and Expansion Rack provide a robust solution for your IT infrastructure in a convenient 600 mm x 1100 mm footprint. The optional IBM Rear Door Heat eXchanger can be installed to provide a superior cooling solution, and the entire cabinet will still fit on a standard data center floor tile (width). The IBM PureFlex System 42U Rack and Expansion Rack are designed to be the perfect complement to your IBM IT solutions.

These IBM PureFlex 42 U Racks are industry-standard 19-inch racks that support IBM PureFlex systems, IBM System x® servers, and BladeCenters.

Overview

PureFlex System 42U Rack and Expansion Rack

The IBM PureFlex System 42U Rack and IBM PureFlex System 42U Expansion Rack have been optimized for use with IBM Flex System™ components, IBM System x servers, and BladeCenter® systems. Their robust design allows them to be shipped with equipment already installed.

These IBM PureFlex 42U racks are industry-standard 19-inch racks that support IBM PureFlex systems, IBM System x servers, and BladeCenters.

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

Features include:

- A unique PureFlex-branded 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 slots are provided to route velcro strips around cables.
- Side panels are a standard feature and are designed to be easy to install and remove.
- The front door is hinged on one side only.
- Rear door can be hinged on either side.

- Front and rear doors and side panels include locks and keys to help secure servers.
- Horizontal and vertical cable channels are built into the frame.
- Heavy-duty casters with outriggers (stabilizers) come with the 42U rack for added stability, allowing movement of large loads.
- Tool-less 0U PDU rear channel mounting is provided.

These 42U racks provide excellent solutions for creating rack suites to economically support multiple servers and supporting devices.

Key prerequisites

None

Planned availability date

November 30, 2012

Description

IBM PureFlex System 42U Rack and Expansion Rack

These racks are designed to 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.

These PureFlex 42U racks feature:

- 600 mm standard width to complement current raised-floor data center designs
- Increase in depth to from 1,000 mm to 1,100 mm to improve cable management
- Increase in door perforation to maximize airflow
- Support for tool-less 0U PDU mounting, and 1U PDU easy installation of 1U PDUs
- Front-to-back cable raceways
- Support for shipping of fully integrated solutions
- Horizontal and vertical cable channels built into the frame
- Lockable doors and side panels that all use the same key
- Heavy-duty casters to help safely move large loads in the rack
- A rear door for easy access

IBM PureFlex Rack Door

This new PureFlex-branded rack door is used to enclose the front of the rack and comes in a blue color.

These new rack platforms are designed for complex applications needed for your business today.

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

Product positioning

The IBM PureFlex System 42U Racks are positioned as IBM's high-end rack cabinet offerings.

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

Product number

The Single Entity Offerings (SEO)

Description	SEO number
IBM PureFlex System 42U Rack	93634CX
IBM PureFlex System 42U Expansion Rack	93634DX

Option SEO

Description	SEO number
IBM PureFlex System Rack Door Kit	44X3132

The following are features already announced for the 3331 and 9363 machine types:

Description	MT	Model	Feature
IBM PureFlex System 42U Rack	9363	RC4	A3GR
IBM PureFlex System 42U Expansion Rack	9363	RC4	A3GS
IBM PureFlex System Rack Door Kit	3331	HC1	EU21

Publications

An *Installation and User's Guide*, and safety and warranty publications are shipped with each rack.

Business Partner information

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=112-151>

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.

System x and BladeCenter support services

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>

Technical information

Specified operating environment

Physical specifications

Approximate external dimensions

IBM PureFlex System 42U Rack - 9363-4CX

- Height: 2009 mm (79.1 in)
- Width: 604 (23.8 in)
- Depth: 1100 mm (46.3 in)
- Weight: 179 kg (394 lb) weight includes outriggers

IBM PureFlex System 42U Flex Expansion Rack - 9363-4DX

- Height: 2009 mm (79.1 in)
- Width: 604 (23.8 in)
- Depth: 1100 mm (46.3 in)

- Weight: 142 kg (314 lb) weight includes outriggers

IBM Pure Flex Rack Door Kit - 44X3132

- Height: 1924 mm (75.8 in)
- Width: 597 mm (23.5 in)
- Depth: 90 mm (3.6 in)
- Weight: 19.5 kg (43 lb)

Agency approvals

The IBM PureFlex System 42U Racks and Rack Door Kit adhere to the following safety requirements:

- UL 60950-1:2007
- 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

Product	Package description	Boxes
IBM PureFlex System 42U Rack	IBM 42U Rack Carton	1
IBM PureFlex System 42U Expansion Rack		

IBM 42U Rack box contains:

- 42U rack cabinet and keys
- Front stabilizer plate
- Installation and safety publications with warranty

The rack is shipped in a single package.

Approximate shipping dimensions and weights:

IBM PureFlex System 42U Rack model

- Height: 2237 mm (88.1 in)
- Width: 940 mm (37.0 in)
- Depth: 1474 mm (58.0 in)
- Weight: 217 kg (478.4 lb)

The new PureFlex branded front rack door is shipped in a single package.

Supplies

IBM PureFlex System 42U Racks can be purchased from dealers around the world.

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.

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

MES discount applicable

No

Field installable feature

Yes

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 that 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 are the same as those for the machine in which it is installed.

Customer setup

Yes

Machine code

No license terms apply.

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 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 rear door

- 42U front door
- Door latch
- Keys
- Cable management bracket
- Hardware kit
- 1177 mm deep Lower side panel
- 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.

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?1ndocid=MIGR-5070200>

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

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 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.

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 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.

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)

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 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.

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 specified below, 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

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 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.

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

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 Internal Code and Licensed Machine Code

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

Educational allowance

None

Prices

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

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

To locate the web price, search on the feature number in the Search field.

Description	SEO Number
IBM PureFlex System 42U Rack	93634AX
IBM PureFlex System 42U Expansion Rack	93634BX

The following are features already announced for the 7309 machine type:

Description	Model number	Feature number	Initial/MES/Both support
PureFlex System Expansion Indicator	HC3	A34H	Initial

The following are features already announced for the 9363 machine type:

Description	Model number	Feature number	Initial/MES/Both support
RFID Tag, AG/AP: 902-928Mhz	RC4	A2EV	Initial
PureFlex System Express Indicator	RC4	A2VS	Initial
PureFlex System Standard Indicator	RC4	A2VT	Initial
PureFlex System Enterprise Indicator	RC4	A2VU	Initial
IBM PureFlex System 42U Rack	RC4	A31F	Initial
IBM PureFlex System 42U Expansion Rack	RC4	A31G	Initial
PureFlex System Expansion Indicator	RC4	A34H	Initial

Description	SEO Number
IBM PureFlex System 42U Rack	93634AX
IBM PureFlex System 42U Expansion Rack	93634BX

Description	Machine type	Model	Part number
IBM PureFlex 42U Rack	9363	4CX	93634CX
IBM PureFlex 42U Expansion Rack	9363	4DX	93634DX

Field install only	Plant install only	MES removal	Cables required
Y	N	Y	N

Option SEO

Description	Part number
IBM PureFlex System Rack Door Kit	44X3132

The following are features already announced for the 3331 machine type:

Description	Model number	Feature number	Initial/MES/Both support
IBM PureFlex System Rack Door Kit	HC1	EU21	MES

The following are features already announced for the 9363 machine type:

Description	Model number	Feature number	Initial/MES/Both support
IBM PureFlex System 42U Rack	RC4	A3GR	Initial
IBM PureFlex System 42U Expansion Rack	RC4	A3GS	Initial

ServicePac information

ServicePac for Warranty Service Upgrade (WSU) and Maintenance Charges

Machine Type/Model	Description	ServicePac Part Number	SEO	ServicePac TMF Part Number
9363-4AX 4BX	3-year IOR 9 x 5 4 hour response	91Y9786		67567VN
9363-4AX 4BX	3-year IOR 24 x 7 4 hour average response	91Y9787		67567VP
9363-4AX 4BX	3-year IOR 24 x 7 2 hour average response	91Y9788		67567VQ
9363-4AX 4BX	4-year IOR 9 x 5 Next business day	91Y9789		67567VR
9363-4AX 4BX	4-year IOR 9 x 5 4 hour response	91Y9790		67567VS
9363-4AX 4BX	4-year IOR 24 x 7 4 hour average response	91Y9791		67567VT
9363-4AX 4BX	4-year IOR 24 x 7 2 hour average response	91Y9792		67567VU
9363-4AX 4BX	5-year IOR 9 x 5 Next business day	91Y9793		67567VV
9363-4AX 4BX	5-year IOR 9 x 5 4 hour response	91Y9794		67567VW
9363-4AX 4BX	5-year IOR 24 x 7 4 hour average response	91Y9795		67567VX
9363-4AX 4BX	5-year IOR 24 x 7 2 hour average response	91Y9796		67567VY
Maintenance Agreement				
9363-4AX 4BX	1-year MA IOR 9 x 5 NBD response	91Y9797		6756MTY
9363-4AX 4BX	1-year MA IOR 9 x 5 4 hour average response	91Y9798		6756MTZ

9363-4AX 4BX	1-year MA IOR 24 x 7 4 hour average response	91Y9799	6756MU0
9363-4AX 4BX	1-year MA IOR 24 x 7 2 hour average response	91Y9800	6756MU1
9363-4AX 4BX	2-year MA IOR 9 x 5 NBD response	91Y9801	6756MU2
9363-4AX 4BX	2-year MA IOR 9 x 5 4 hour average response	91Y9802	6756MU3
9363-4AX 4BX	2-year MA IOR 24 x 7 4 hour average response	91Y9803	6756MU4
9363-4AX 4BX	2-year MA IOR 24 x 7 2 hour average response	91Y9804	6756MU5

Maintenance charges

For additional information on maintenance and pricing, please contact your IBM Sales Representative or your IBM Business Partner, or call 1-800-IBM-CALL (1-800-426-2255).

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

Trademarks

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<http://www.ibm.com/legal/us/en/>

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/>