

IBM eX5 MAX5 to x3690 X5 QPI Cable Kit



Installation Instructions

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Installation Instructions

Note: Before using this information and the product it supports, read the general information in the *IBM Safety Information* and *Environmental Notices and User Guide* documents on the *IBM Documentation* CD that came with your server and the Appendix A, "Warranty information," on page 21.

Third Edition (October 2010)

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Safety

Before installing this product, read the Safety Information.

قبل تركيب هذا المنتج، يجب قراءة الملاحظات الأمنية

Antes de instalar este produto, leia as Informações de Segurança.

在安装本产品之前，请仔细阅读 **Safety Information** (安全信息)。

安裝本產品之前，請先閱讀「安全資訊」。

Prije instalacije ovog produkta obavezno pročitajte Sigurnosne Upute.

Před instalací tohoto produktu si přečtěte příručku bezpečnostních instrukcí.

Læs sikkerhedsforskrifterne, før du installerer dette produkt.

Lees voordat u dit product installeert eerst de veiligheidsvoorschriften.

Ennen kuin asennat tämän tuotteen, lue turvaohjeet kohdasta Safety Information.

Avant d'installer ce produit, lisez les consignes de sécurité.

Vor der Installation dieses Produkts die Sicherheitshinweise lesen.

Πριν εγκαταστήσετε το προϊόν αυτό, διαβάστε τις πληροφορίες ασφαλείας (safety information).

לפני שתתקינו מוצר זה, קראו את הוראות הבטיחות.

A termék telepítése előtt olvassa el a Biztonsági előírásokat!

Prima di installare questo prodotto, leggere le Informazioni sulla Sicurezza.

製品の設置の前に、安全情報をお読みください。

본 제품을 설치하기 전에 안전 정보를 읽으십시오.

Пред да се инсталира овој продукт, прочитајте информацијата за безбедност.

Les sikkerhetsinformasjonen (Safety Information) før du installerer dette produktet.

Przed zainstalowaniem tego produktu, należy zapoznać się z książką "Informacje dotyczące bezpieczeństwa" (Safety Information).

Antes de instalar este produto, leia as Informações sobre Segurança.

Перед установкой продукта прочтите инструкции по технике безопасности.

Pred inštaláciou tohto zariadenia si pečítajte Bezpečnostné predpisy.

Pred namestitvijo tega proizvoda preberite Varnostne informacije.

Antes de instalar este producto, lea la información de seguridad.

Läs säkerhetsinformationen innan du installerar den här produkten.

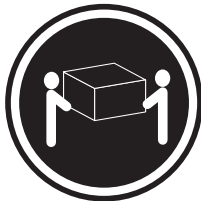
Important:

Each caution and danger statement in this document is labeled with a number. This number is used to cross reference an English-language caution or danger statement with translated versions of the caution or danger statement in the *Safety Information* document.

For example, if a caution statement is labeled “Statement 1,” translations for that caution statement are in the *Safety Information* document under “Statement 1.”

Be sure to read all caution and danger statements in this document before you perform the procedures. Read any additional safety information that comes with the server or optional device before you install the device.

Statement 4:



≥ 18 kg (39.7 lb)



≥ 32 kg (70.5 lb)



≥ 55 kg (121.2 lb)

CAUTION:

Use safe practices when lifting.

Statement 15:



CAUTION:

Make sure that the rack is secured properly to avoid tipping when the server unit is extended.

Statement 26:



CAUTION:

Do not place any object on top of rack-mounted devices.



Statement 37:



DANGER:

When you populate a rack cabinet, adhere to the following guidelines:

- Always lower the leveling pads on the rack cabinet.
- Always install the stabilizer brackets on the rack cabinet.
- Always install the heaviest devices in the bottom of the rack cabinet.
- Always install devices starting from the bottom of the rack cabinet.
- Do not extend multiple devices from the rack cabinet simultaneously, unless the rack-mounting instructions direct you to do so.
Multiple devices extended into the service position can cause your rack cabinet to tip.
- If you are not using the IBM 9308 rack cabinet, securely anchor the rack cabinet to ensure its stability.

United Kingdom - Notice to Customers:

This apparatus is approved under approval number NS/G/1234/J/100003 for indirect connection to public telecommunication systems in the United Kingdom.

Cable and rack installation instructions

This document describes how to install an IBM® System x3690 X5 server and an IBM MAX5 for System x memory expansion module in a rack and connect them together with a QPI Cable Kit.

Review the documentation that comes with the rack cabinet for safety and cabling information. Before you install the server and memory expansion module in a rack cabinet, review the following guidelines:

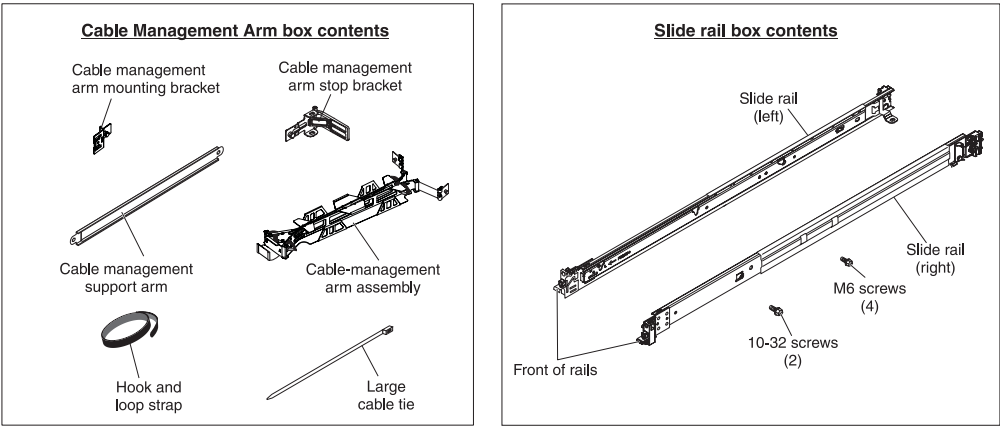
- Two or more people are required to install devices that are 2U or larger in a rack cabinet.
- Make sure that the room air temperature is below 35°C (95°F).
- Do not block any air vents; usually 15 cm (6 in.) of space provides proper airflow.
- Do not leave open spaces above or below an installed server in your rack cabinet. To help prevent damage to server components, always install a filler panel to cover the open space and to help ensure proper air circulation.
- Install the server and memory expansion module only in a rack cabinet that has perforated doors.
- Plan the device installation starting from the bottom of the rack cabinet.
- Install the heaviest device in the bottom of the rack cabinet.
- Always install the tip plates on the rack.
- Do not extend more than one server and expansion memory module out of the rack cabinet at the same time.
- Remove the rack doors and side panels to provide easier access during installation.
- Connect the server to a properly grounded outlet.
- Do not disconnect or connect any of the cables when ac power is connected to the server or the MAX5 memory expansion module.
- Do not overload the power outlet when you install multiple devices in the rack cabinet.
- Install the server and memory expansion module in a rack that meets the following requirements:
 - Minimum depth of 50 mm (1.97 in.) between the front mounting flange and inside of the front door.
 - Minimum depth of 883 mm (34.76 in.) between the front mounting flange outside surface and the inside of the rear door to support the use of the cable-management arm.
 - Minimum depth of 527 mm (20.75 in.) and maximum depth of 810 mm (31.89 in.) between the front and rear mounting flanges to support the use of the system rack slides.

Notes:

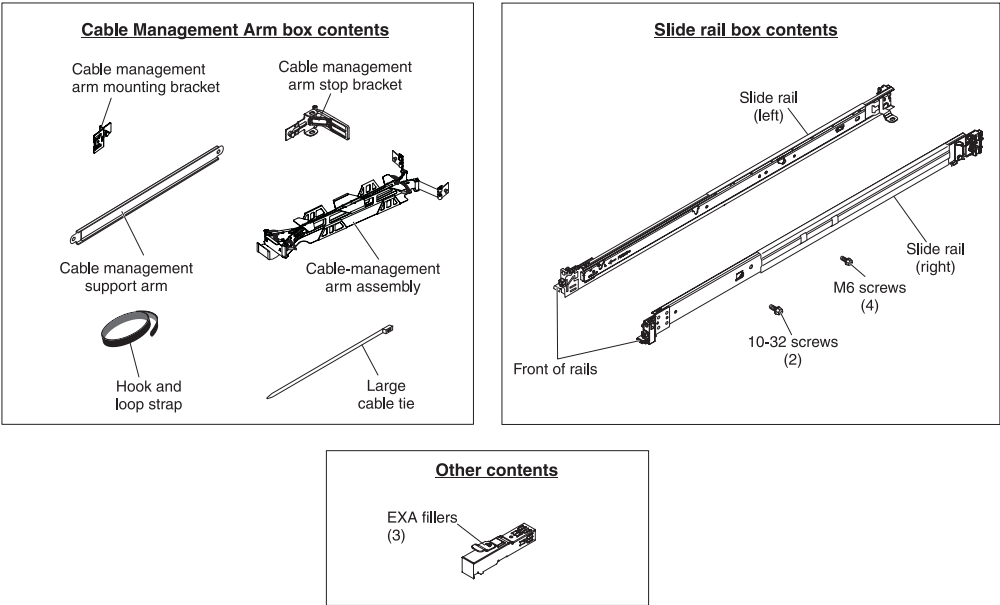
1. Both cable-management arms must be installed on the left side of the rear of the server and memory expansion module to make the rear connectors more accessible.
2. Cage nuts, clip nuts, and shipping brackets are not required for you to install the server or memory expansion module in a rack cabinet unless you plan to transport the rack cabinet to another location with the server and memory expansion module installed. The cage nuts and clip nuts are in the shipping brackets kit that is included in the miscellaneous parts box that comes with the server.

The following illustrations show the items that you need to install the server and memory expansion module in the rack cabinet. If any items are missing or damaged, contact your place of purchase.

Note: The following items come with either the server or the rack installation kit.

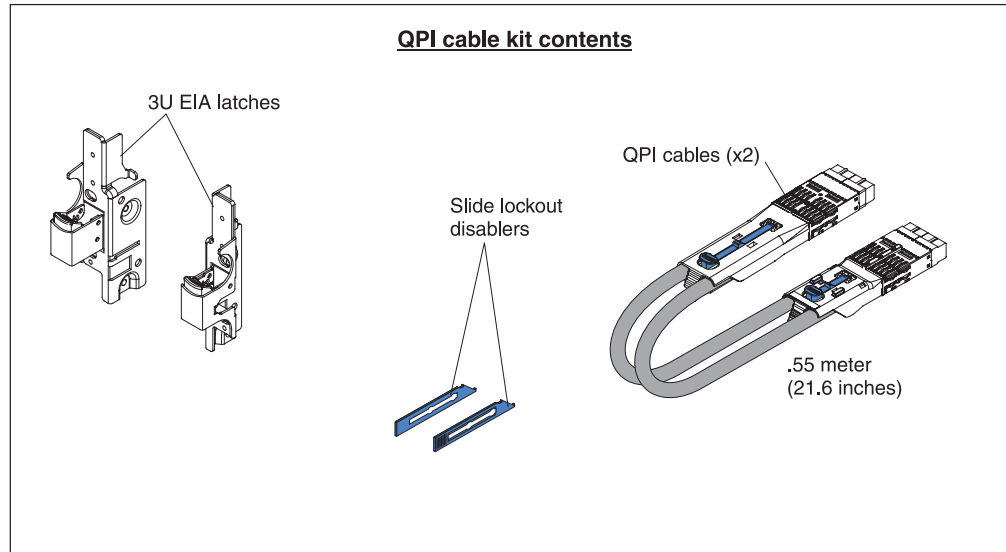


The following items come with the MAX5 memory expansion module.

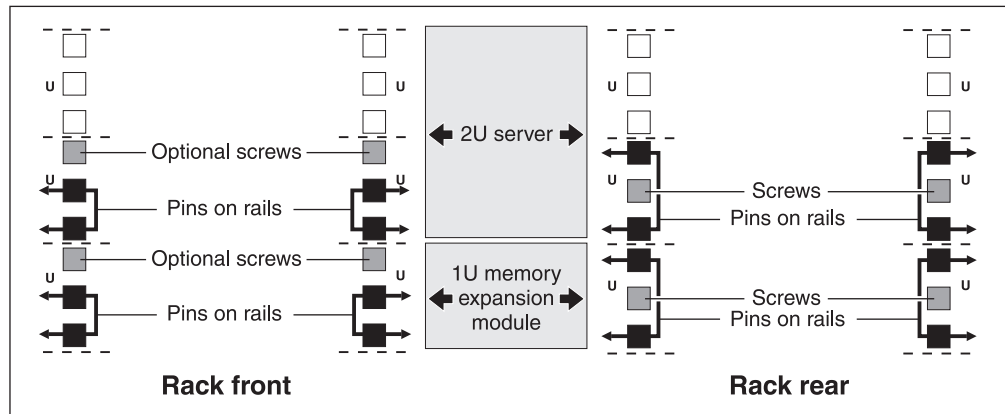


The following items come with the QPI Cable Kit.

Attention: When you handle the QPI cables, take precautions to avoid damaging the high density interface. Dropping and incorrectly connecting the QPI cables can damage the high density interface. Store the protective covers that come on the end of the QPI cables for reuse when you perform maintenance on the server or when you remove the cables for some reason.



Use the following illustrations of the front and rear rack-mounting flanges to determine the appropriate rack-mounting holes for installing the slide rails. Install the 3U configurations (one 2U server and one 1U memory expansion module) so that there is no open space between them. The following illustration shows two 3U configurations.

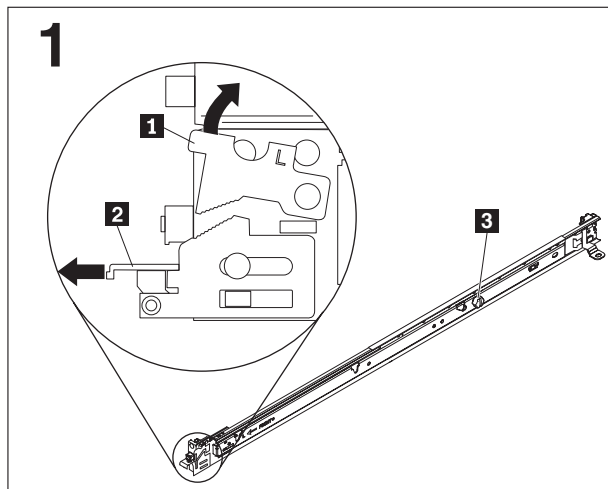


Installing the IBM MAX5 memory expansion module to the x3690 X5 QPI Cable Kit

The following information describes how to connect an IBM MAX5 for System x® (MAX5) memory expansion module to an IBM System x3690 X5 server and install them in a rack.

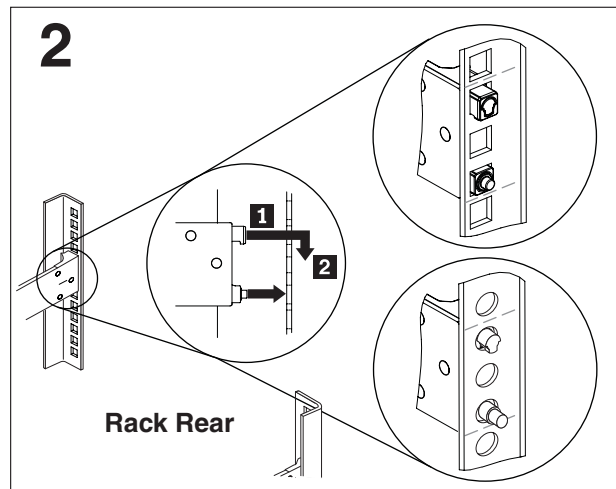
Notes:

1. Before you begin the installation procedure, select a place in the rack where 3U of space is available for each 3U configuration that you plan to install in the rack. Install the server in the rack first, and then install the memory expansion module directly below the server.
2. If the slide rails in your rack installation kit came with shipping thumbscrews, remove them before you begin the following installation procedure.



Open the server front slide rail latches.

Each slide rail is marked with an R (right) or an L (left). Select one of the slide rails and push up on the front moveable tab **1**; then, pull out the front latch **2**. If a thumbscrew is installed in the slide rail **3**, remove it.

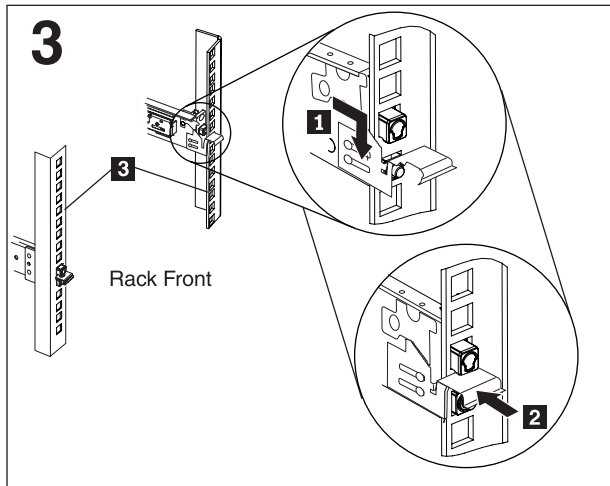


Install the rear end of each server slide rail.

Note: When you install a 2U server, be sure to install the slide rails in the bottom U of the 2U space in the rack.

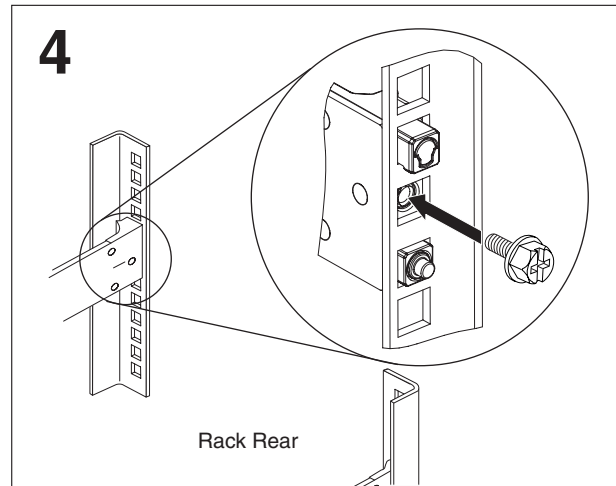
From the front of the rack, line up the three pins on the rear of the slide rail with the three holes in the selected U on the rear of the rack. Push the rails so that the pins go into the holes **1**, and drop the slide rail down **2** until it latches into place.

If a screw with a tag attached is installed in the middle hole in the rear bracket, remove the tag and screw. Keep the screw to use in a later step.



Install the front end of each server slide rail.

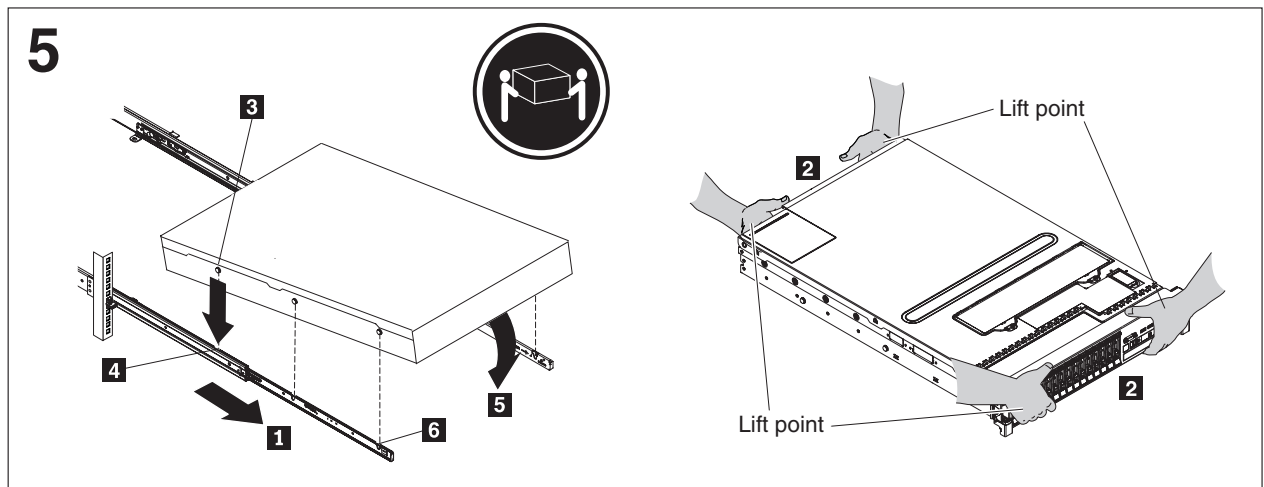
Pull the slide rail forward and insert the two lower pins **1** on the front of the rail into the two lower holes in the U on the front of the rack. Drop the rail into place until it clicks. Push the front latch **2** in all the way with one hand while you pull on the rail assembly with your other hand. Make sure that the front of the rail flange is pulled all the way forward and is in contact with the EIA flange **3**.



Secure the server slide rails in the rack.

Install the screw that you removed in step 2 in the middle hole in the rear of the rack.

Repeat steps 1 through 4 to install the other server slide rails into the rack. Make sure that each front latch is fully engaged.

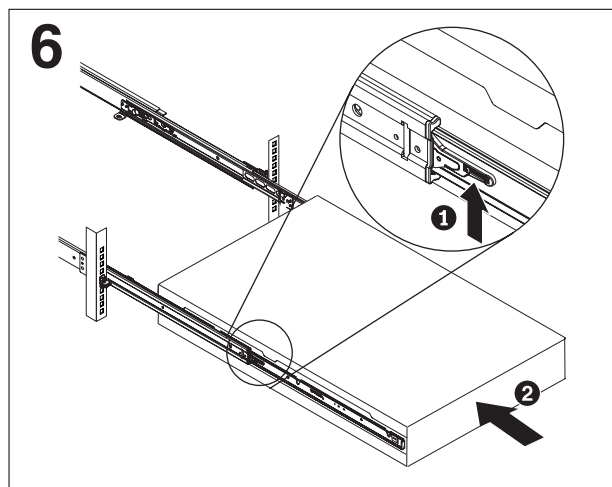


Install the server on the slide rails.

Note: Make sure that you use two people when lifting the server. Their hands should be positioned as illustrated by **2**.

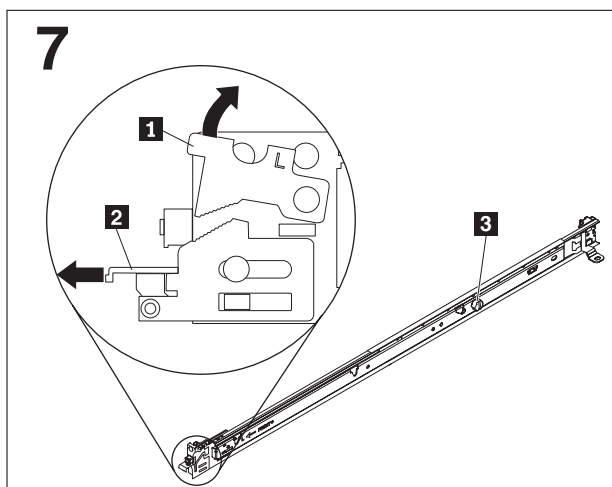
It is possible to install the server horizontally, but it is easier to install the server when it is tilted.

Pull the slide rails forward **1** until they click, two times, into place. Use two people to carefully lift the server **2** and tilt it into position over the slide rails so that the rear rail heads **3** on the server line up with the rear slots **4** on the slide rails. Slide the server down until the rear rail heads slip into the two rear slots, and then slowly lower the front of the server **5** until the other rail heads slip into the other slots on the slide rails. Make sure that the front latch **6** slides over the rail heads.



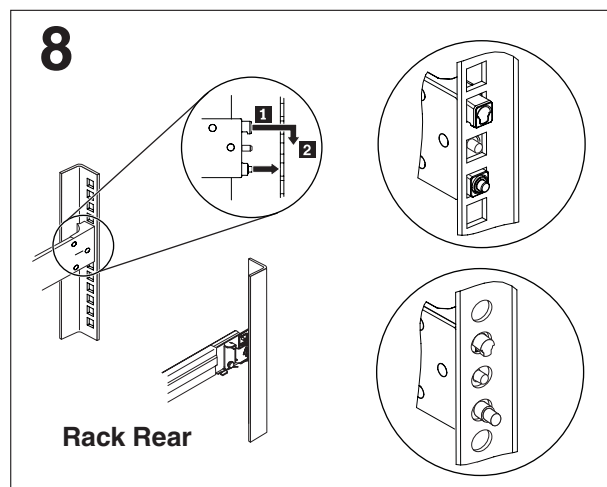
Slide the server into the rack.

Lift the locking levers **1** on the slide rails and push the server **2** all the way into the rack until it clicks into place.



Open the front slide rail latches for the MAX5 memory expansion module.

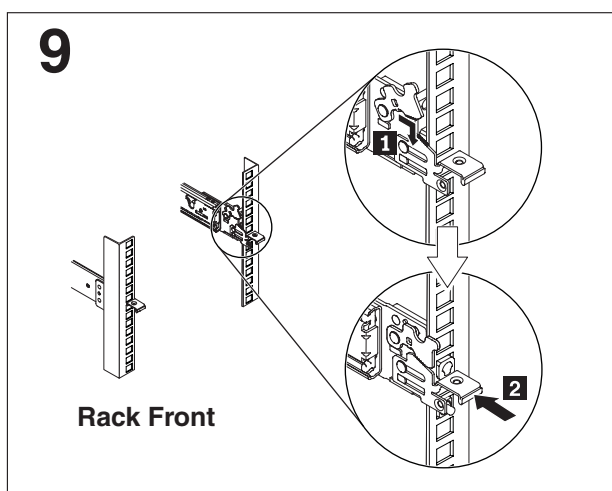
Each slide rail is marked with an R (right) or L (left). Select one of the slide rails and push up on the front movable tab **1**; then, pull out the front latch **2**. If a thumbscrew is installed in the slide rail **3**, remove it.



Install the rear end of each expansion module slide rail directly below the server.

Note: You must extend the slide rails to slide the rear of the slide rails into the rear of the rack.

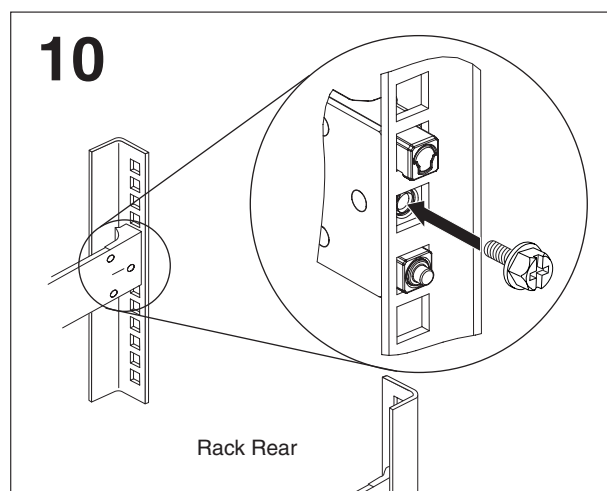
From the front of the rack, line up the three pins on the rear of the slide rail with the three holes in the selected U on the rear of the rack. Push the rail so that the pins go into the holes **1**, and then lower it down **2** until it latches into place.



Install the front end of each slide rail for the MAX5 memory expansion module.

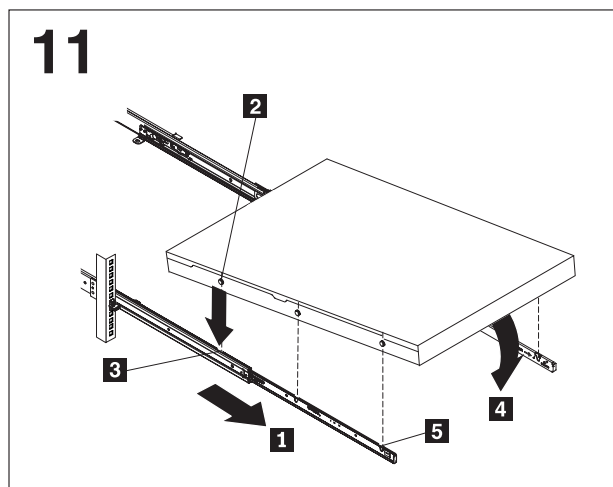
Pull the slide rail forward and insert the two pins **1** on the front of the rail into the two lower holes in the U on the front of the rack. Lower the rail into place until it clicks. Push the front latch **2** in all the way.

Repeat steps 6 to 8 to install the other slide rail into the rack. Make sure that each front latch is fully engaged.



Secure the slide rails for the MAX5 memory expansion module in the rack.

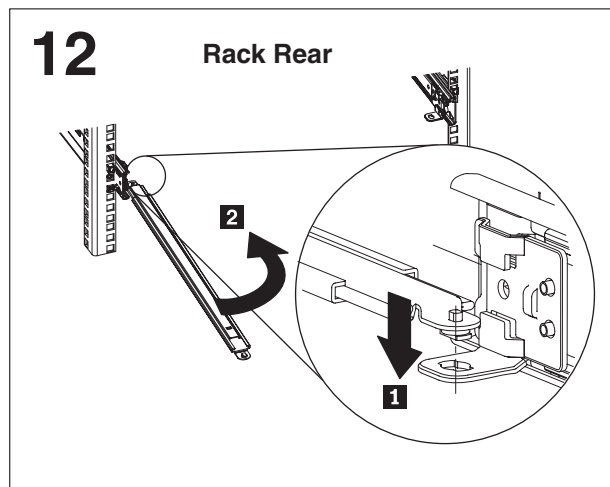
Install a 10-32 **2** screw in the rear of each slide rail.



Install the memory expansion module on the slide rails.

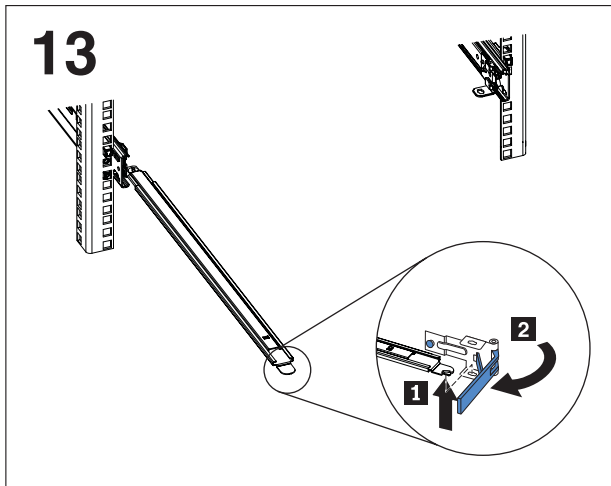
Pull the slide rails forward **1** until they click, two times, into place. Carefully lift the memory expansion module and tilt it into position over the slide rails so that the rear nail heads **2** on the memory expansion module line up with the rear slots **3** on the slide rails. Slide the memory expansion module down until the rear nail heads slip into the two rear slots, and then slowly lower the front of the memory expansion module **4** until the other nail heads slip into the other slots on the slide rails. Make sure that the front latch **5** slides over the nail heads.

Slide the memory expansion module into the rack.



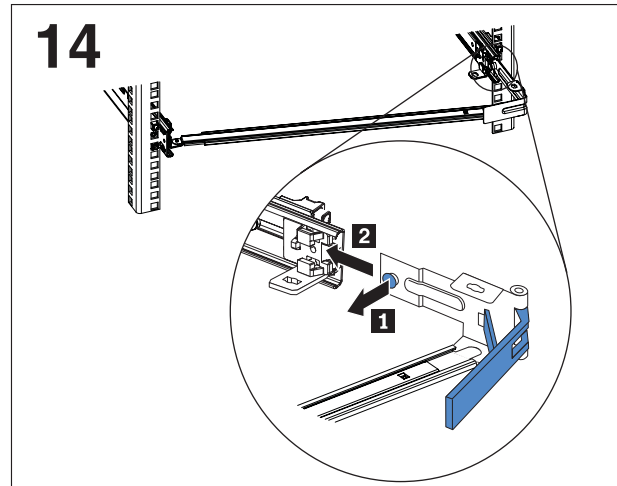
Install the cable-management support arm for the memory expansion module.

Install the cable-management arm on the left-rear side of the server. Connect one end of the support arm **1** to the same slide rail to which you plan to attach the cable-management arm so that you can swing the other end of the support arm **2** toward the rack. Make sure the shiny bar is on top, as shown in the illustration.



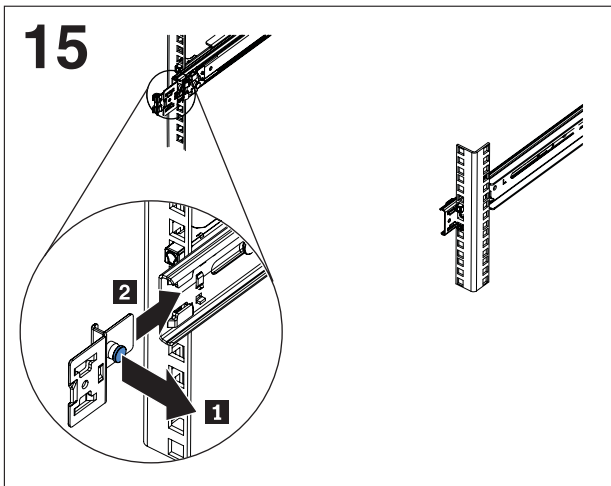
Install the stop bracket for the memory expansion module cable-management arm.

Install the L-shaped stop bracket **1** on the unattached end of the support arm. Turn the stop bracket **2** to secure it to the support arm.



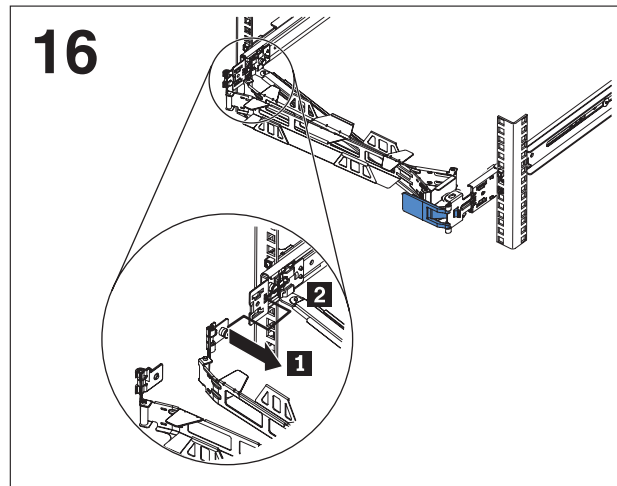
Connect the stop bracket to the slide rail for the memory expansion module.

To attach the other side of the support arm to the rear of the slide rail, pull the pin out **1**, and then slide the bracket **2** into the slide rail.



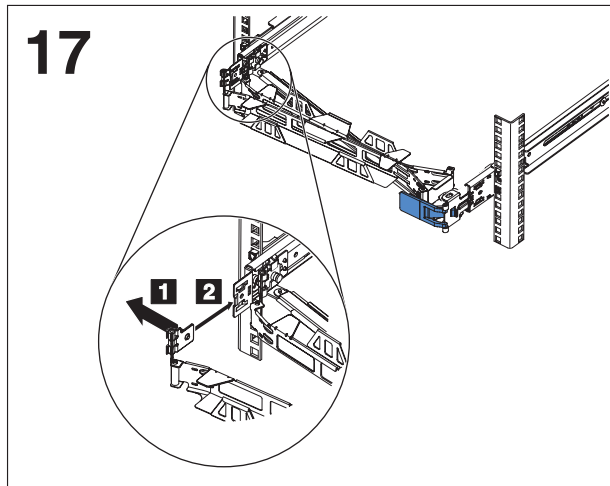
Install the cable-management arm mounting bracket for the bnbmemory expansion module.

Pull out the mounting bracket pin **1** and slide the mounting bracket **2** into the slide rail onto which you are installing the cable-management arm. Push the bracket into the slide rail until the spring-loaded pin snaps into place.



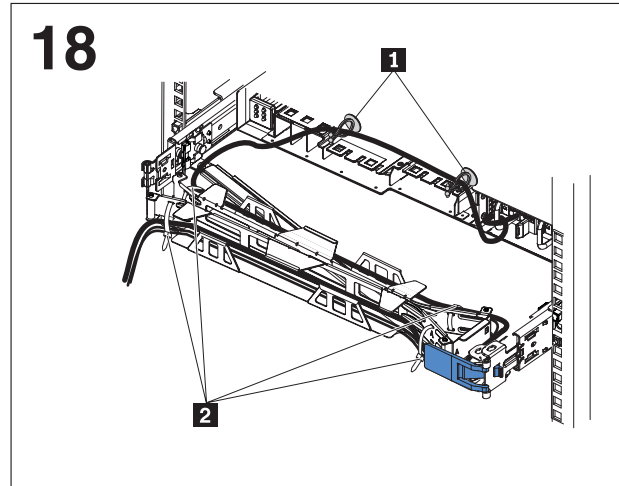
Install the cable-management arm for the memory expansion module.

Place the cable-management arm on the support arm. Pull the pin **1** of out the cable-management arm, and then slide the tab **2** on the cable-management arm into the slot on the inside of the slide rail. Push the tab until it snaps into place.



Install the cable-management arm for the memory expansion module (continued).

Pull the other pin **1** out of the cable-management arm, and then slide that tab on the cable-management arm into the slot **2** on the outside of the slide rail. Push the tab until it snaps into place.



Connect and route the power cables for the memory expansion module.

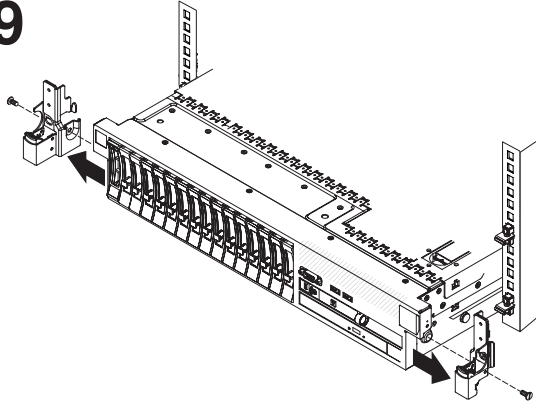
Attach the power cords to the rear of the memory expansion module. To access the rear of the server, lift the cable-management arm above the stop bracket and rotate it out of the way, and then slide the server forward approximately 13 cm (5 in.).

Route the power cords through the cable clamp **1** on the back of the memory expansion module, and then route them in the cable-management arm **2** and secure them with cable ties or hook-and-loop fasteners.

Note: Allow slack in all cables to avoid tension in the cables as the cable-management arm moves.

Slide the server back into the rack.

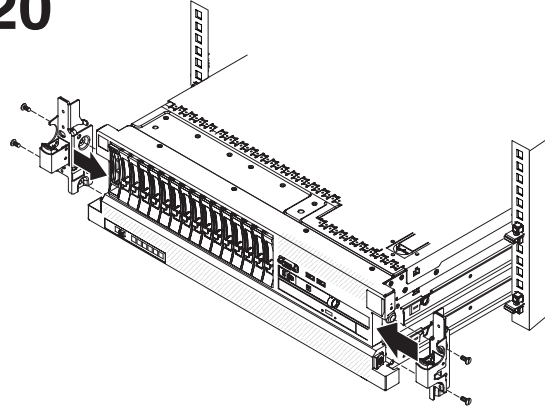
19



Remove the 2U EIA rack latches from the front of the server.

1. Unscrew the three screws from both of the 2U EIA rack latches, and then remove the 2U EIA rack latches from the server. (Store the 2U EIA latch in a safe place for possible future use.)
2. Pull the server partially out of the rack, approximately 30 cm (12 in.).

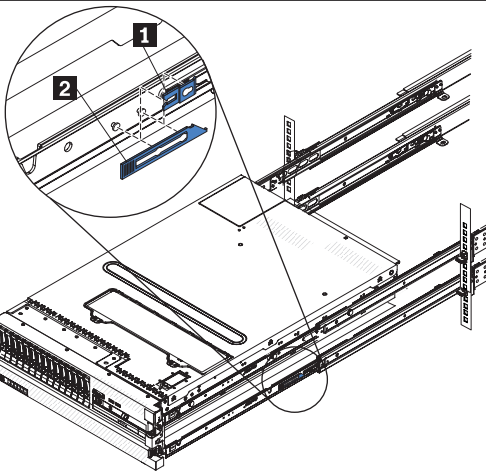
20



Install the 3U EIA latches to the front of the server and the MAX5 memory expansion module.

1. Pull the MAX5 memory expansion module partially out of the rack and align it with the server.
2. Line up the 3U EIA latch over the two pins (one pin is on the server and one pin is on the memory expansion module).
3. Install the two screws (one in the server and one in the memory drawer) to hold the new EIA latch in place.

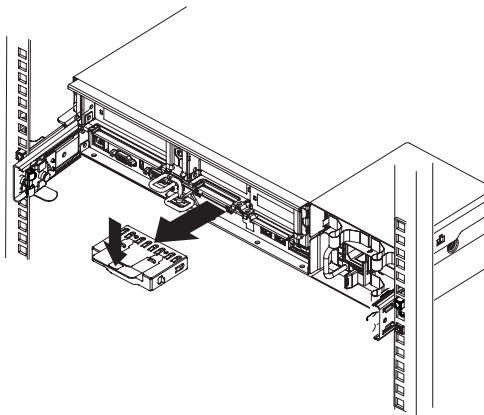
21



Install the slide lockout disabler on the memory expansion module slide rails.

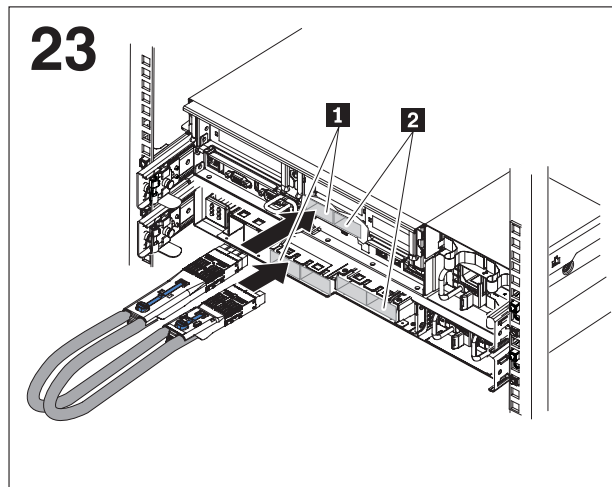
1. Pull the server and the memory expansion module out of the rack.
2. Remove the slide pin cover **1**.
3. Install the blue plastic slide lockout disabler **2** on the side of the slide rails.
4. Slide the server and memory expansion module back into the rack.

22



Remove the QPI fillers from the server.

1. Push the server back into the rack until it clicks into place.
2. Squeeze the blue handle on the QPI filler and pull the QPI filler out of the server.



The QPI cables connect the server to the memory expansion module.

1. Simultaneously connect a QPI cable end labeled "2U" to port **2** on the server and the end labeled "1U" to port 4 on the memory expansion module. Connect the other QPI cable with the end labeled "2U" to port **1** on the server and the end labeled "1U" to port 1 on the memory expansion module.
2. Close the cable-management arm stopper to lock the arm in place.

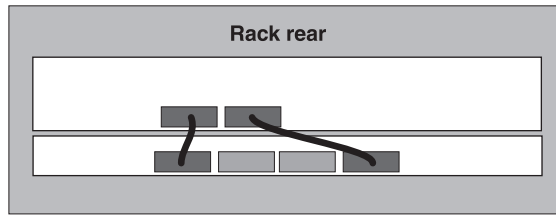
Connect the two QPI cables.

Attention: When you handle the QPI cables, take precautions to avoid damaging the high density interface. Dropping and incorrectly connecting the QPI cables can damage the high density interface. Store the protective covers that come on the end of the QPI cables for reuse when you perform maintenance on the server or when you remove the cables for some reason.

Notes:

1. Adhere to the following QPI cabling guidelines:
 - The QPI cables provide the clocking and field-programmable gate array (FPGA) connections and are required for proper operation.
 - The QPI cables are integral to the combined chassis enclosures and must remain connected for proper operation.
 - During a reboot, a missing or damaged cable will cause the server to halt.
2. Do not disconnect or hot-swap any of the QPI cables while the server is running.
 - The QPI cables are not hot-swappable.
 - Before you remove or install the QPI cables, disconnect the ac power from the server and the MAX5 memory expansion module. Do not reconnect the ac power to the server or the MAX5 memory expansion module until all QPI cables are properly installed and securely fastened.
 - If any of the QPI cables are disconnected while the server is running, the server will halt and unpredictable results will occur.

24

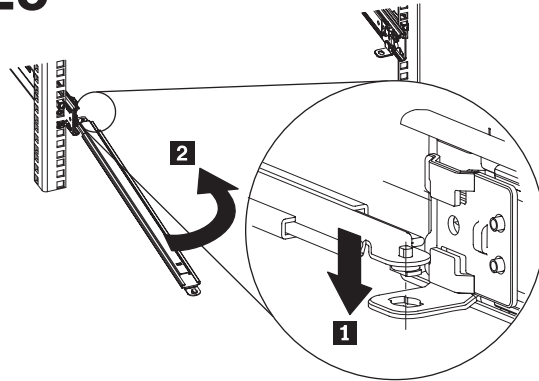


Verify that you have installed the QPI cables correctly.

Make sure you have installed the cables correctly by comparing the rear of the server and memory expansion module to this illustration.

25

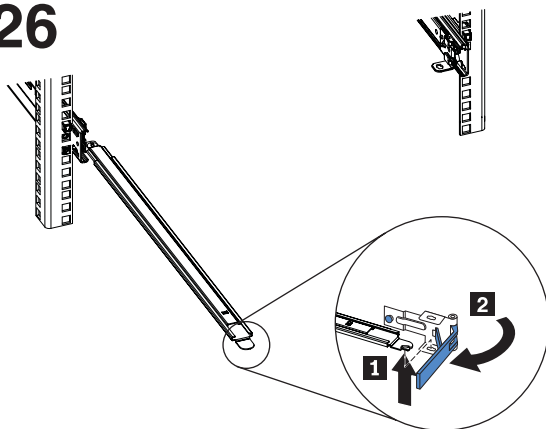
Rack Rear



Install the support arm for the server cable-management arm.

Install the cable-management arm on the left-rear side of the server. Connect one end of the support arm **1** to the same slide rail to which you plan to attach the cable-management arm so that you can swing the other end of the support arm **2** toward the rack. Make sure the shiny bar is on top, as shown in the illustration.

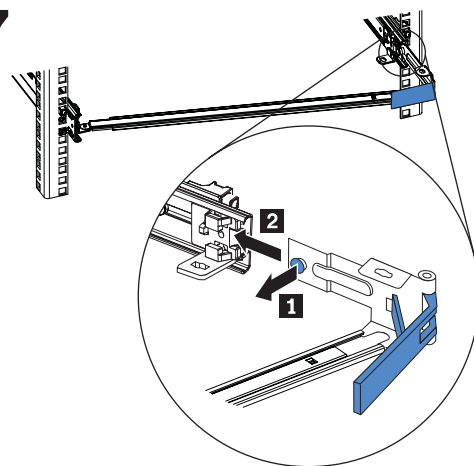
26



Install the stop bracket for the server cable-management arm.

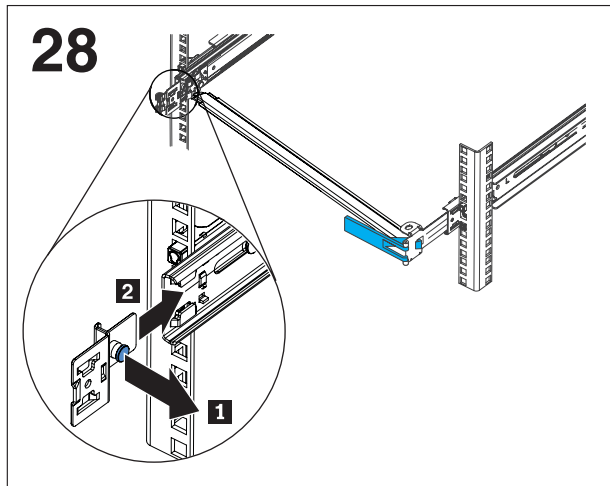
Install the L-shaped stop bracket **1** on the unattached end of the support arm. Turn the stop bracket **2** to secure it to the support arm.

27



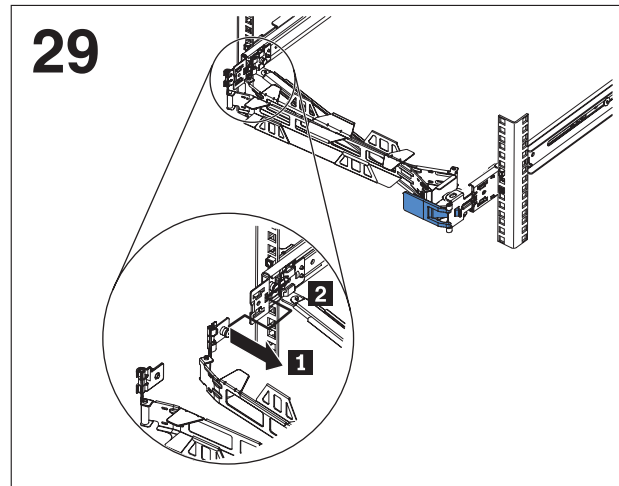
Connect the stop bracket to the server slide rail.

To attach the other side of the support arm to the rear of the slide rail, pull the pin out **1**, and then slide the stop bracket **2** into the slide rail.



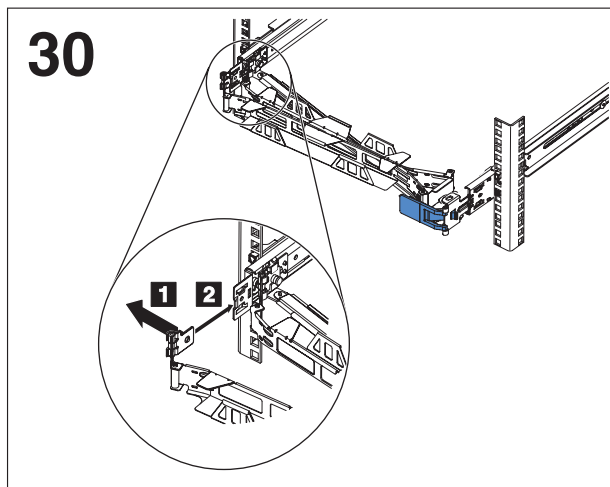
Install the mounting bracket for the server cable-management arm.

Pull out the mounting bracket pin **1** and slide the mounting bracket **2** into the slide rail onto which you are installing the cable-management arm. Push the bracket into the slide rail until the spring-loaded pin snaps into place.



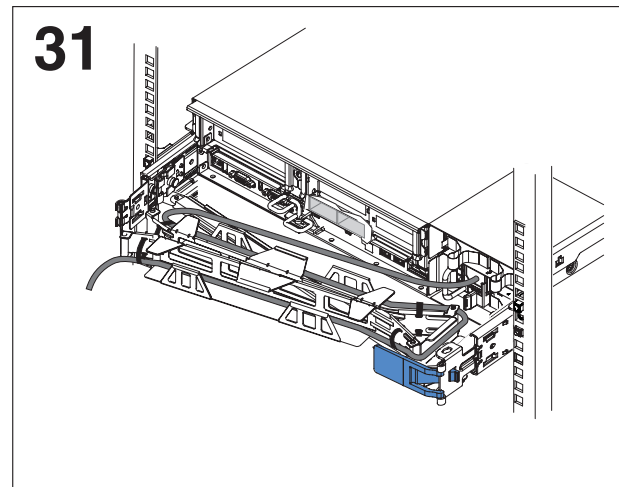
Install the server cable-management arm.

Place the cable-management arm on the support arm. Pull the pin **1** out of the cable-management arm, and then slide the tab **2** on the cable-management arm into the slot on the inside of the slide rail. Push the tab until it snaps into place.



Install the server cable-management arm (continued).

Pull the other pin out of the other cable-management arm **1**, and then slide the tab **2** on that cable-management arm into the slot on the outside of the slide rail. Push the tab until it snaps into place.

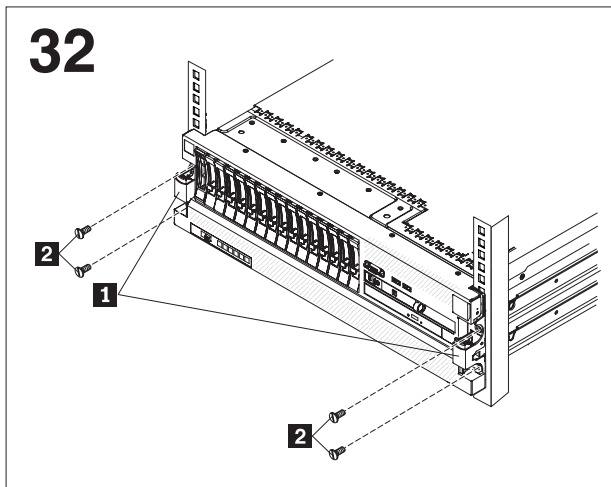


Connect and route the cables.

Attach the power cords and other cables (including keyboard, monitor, and mouse cables, if required) to the rear of the server. (To access the rear of the server, lift the cable-management arm above the stop bracket and rotate it out of the way.)

Route the cables and power cords through the cable clip **1** and then route it in the cable-management arm **2** and secure it with cable ties or hook-and-loop fasteners **3**.

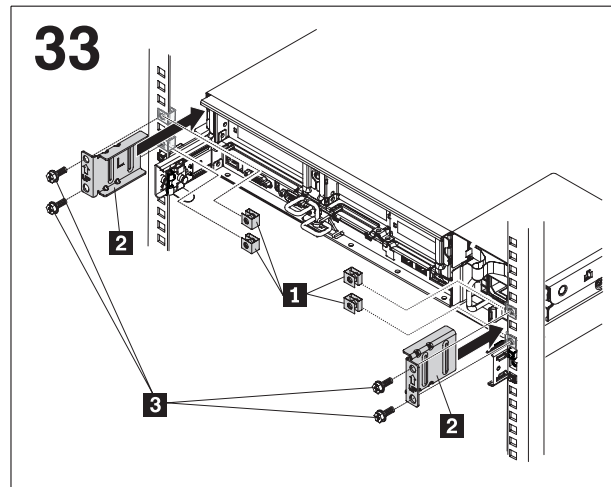
Note: Allow slack in all cables to avoid tension in the cables as the cable-management arm moves.



Install the front screws, if necessary.

Slide the server and memory expansion module into the rack until they snap into place. To slide them out of the rack, press on the release latches **1** on the front of the server.

Note: When you move the rack cabinet, or if you install the rack cabinet in a vibration-prone area, insert the optional M6 screws **2** in the front of the server.



Install the shipping brackets on the rear of the rack, if necessary.

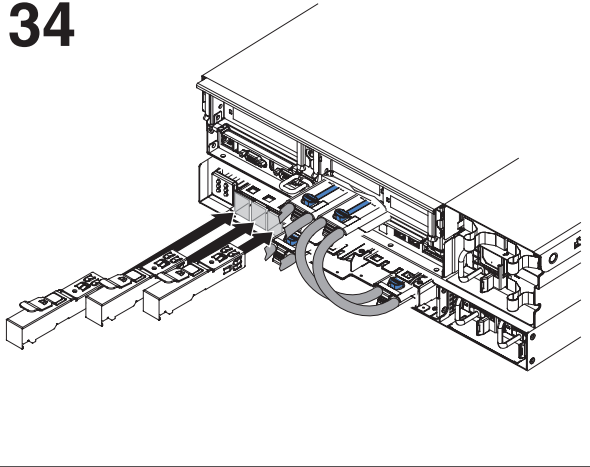
Note: If you plan to transport the rack cabinet to another location with the server installed, you must install the shipping brackets.

The cable management arm is not shown in the illustration for clarity.

Install the cage nuts (square hole racks) or the clip nuts (round hole racks) **1** on the rack. Align the shipping bracket **2** with the left side of the rack and attach it to the rack cabinet with two M6 screws **3**. Repeat these steps to attach the shipping bracket to the right side of the rack cabinet.

Note: When you slide the server out of the rack cabinet when the shipping brackets are installed, you will need to remove the shipping brackets from the rack before you slide the server back into the rack cabinet. The shipping brackets can impede the server from sliding fully into the rack cabinet. To remove the shipping brackets, remove the screws and remove the shipping brackets from the rack.

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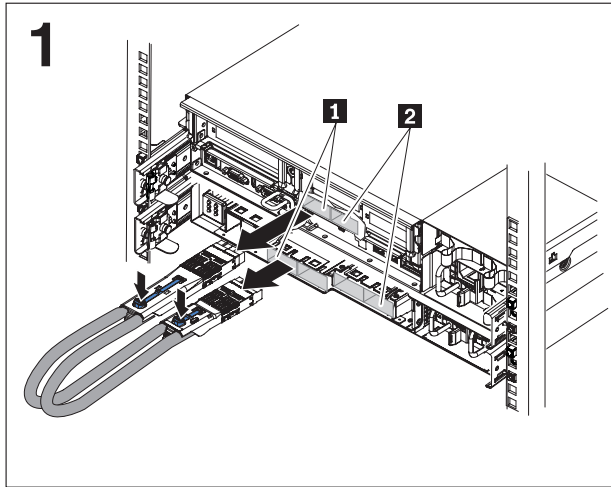


Install the EXA fillers.

Locate the EXA fillers that came with the MAX5 memory expansion module; then, install them in the ports on the back of the memory expansion module.

Removing the server and memory expansion module

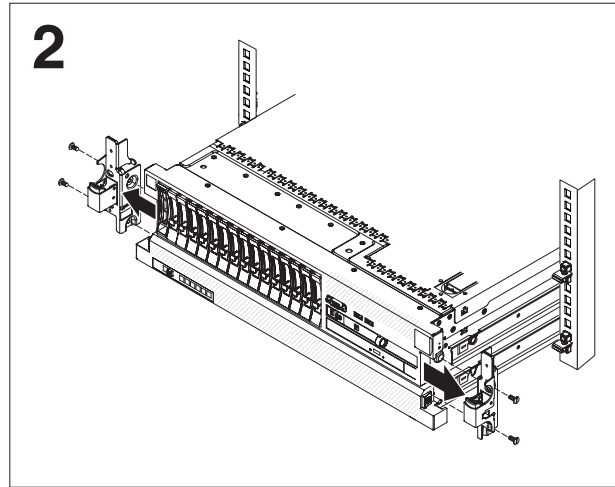
The following information describes how to remove the server and the memory expansion module from the rack.



Remove the QPI cables.

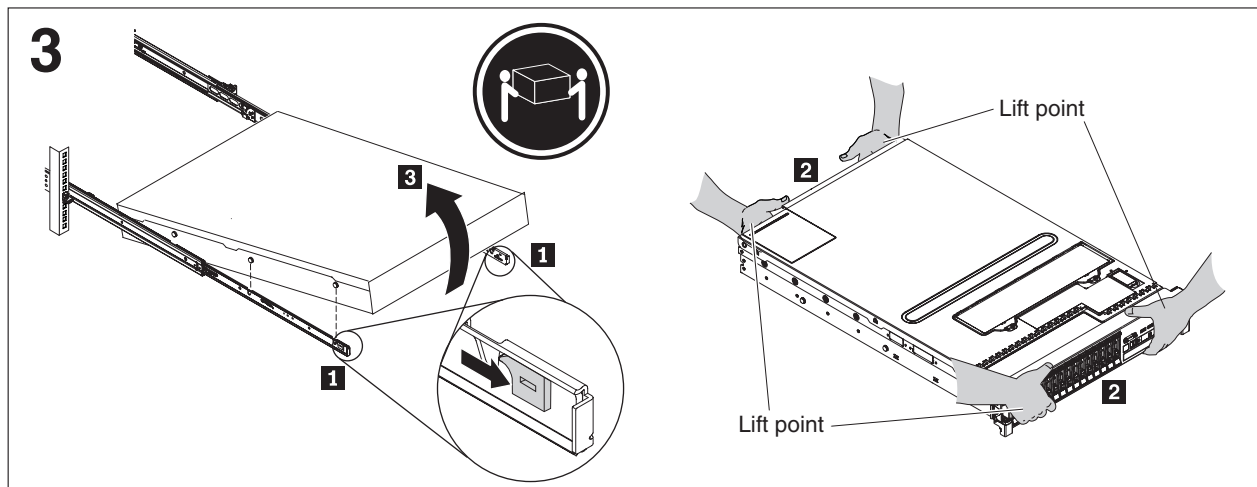
Attention: When you handle the QPI cables, take precautions to avoid damaging the high density interface. Dropping and incorrectly connecting the QPI cables can damage the high density interface. Store the protective covers that come on the end of the QPI cables for reuse when you perform maintenance on the server or when you remove the cables for some reason.

Start with the QPI cable that is connected to the first port on the left. Push the blue release latch on each end of the QPI cable and simultaneously pull it out of the server and memory expansion module. Continue removing the QPI cables until they are all disconnected. Carefully store them in a safe place for future use.



Remove the 3U EIA latches.

1. Remove the four screws from each 3U EIA latch, and then remove the EIA latches.



Unlatch and rotate the front of the server.

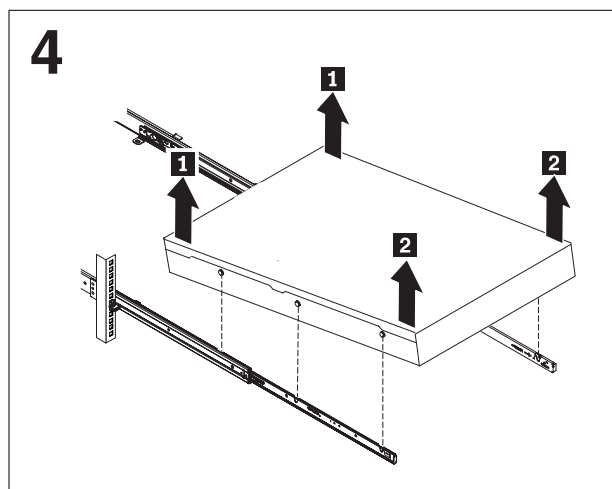
Note: Make sure that the memory expansion module is pushed all the way into the rack when you are removing the server.

To remove the server from the rack, disconnect the cables from the rear of the server. Remove the cable-management arm by pulling the pins out while you slide the tabs out of the mounting location.

Note: Make sure that you use two people when lifting the server. Their hands should be positioned as illustrated by **2**.

Pull the locking levers **1** forward, then with two people supporting the front and the rear of the server **2**, lift the front up slightly **3** to clear the nailhead from the slot. Repeat these steps to remove the memory expansion module.

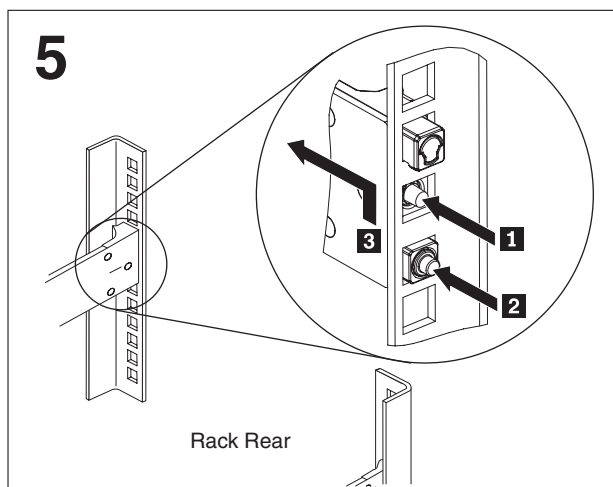
Slide the rails back into the rack.



Lift the server off the slide rails.

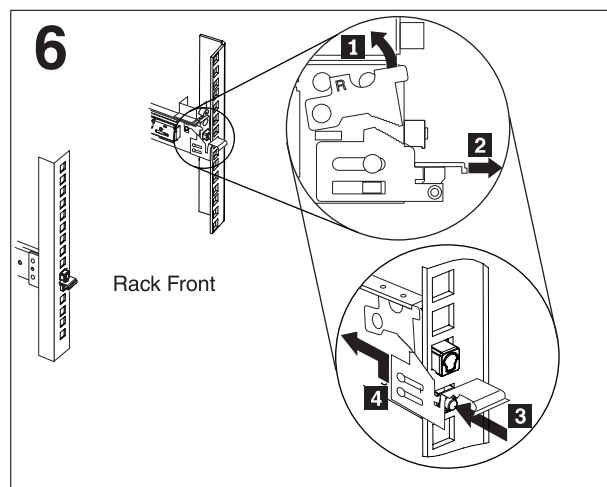
Note: Make sure that you use two people when lifting the server. Their hands should be positioned as illustrated by **2** of step 3.

After the front nailheads clear the latches, use two people to carefully lift up on the rear **1** of the server to level it. Lift the server out of the rack **2** and place it on a sturdy surface. Repeat these steps to remove the memory expansion module.



Remove the rear end of each slide rail.

To disengage the slide rails from the rear of the rack, push in the pins (**1** and **2**) and then push back on the rail **3** .



Remove the front end of each slide rail.

To remove each slide rail from the front of the rack, push up the front tab **1** and slide out the front latch **2** . Push in the lower pin **3** and lift up slightly on the front of the slide rail **4** . Remove the slide rail from the rack.

Appendix A. Warranty information

IBM Warranty Information

Machine Type(s)	Country of Purchase	Warranty Period (Years)	Type of Warranty Service*	Service Level*
IBM eX5 MAX5 to x3690 X5 QPI Cable Kit	Worldwide	1	1	1

Types of Warranty Service: 1) Customer Replaceable Unit (CRU); 5) CRU and On-site; 6) CRU and Courier or Depot; 7) CRU and Customer Carry-in or Mail-in; 8) CRU and Machine Exchange.

Service Levels: 1) Next Business Day (NBD), 9x5; 2) Same Business Day (SBD), 9x5; 3) Same Day, 24x7.

* See "Type of Warranty Service" and "Service Levels" in the *IBM Statement of Limited Warranty* for explanations of warranty service types and service levels.

You can obtain a copy of the *IBM Statement of Limited Warranty* for this product from the IBM Web site at http://www.ibm.com/servers/support/machine_warranties/. The Statement of Limited Warranty is available on this site in 17 languages. The table above provides the product-specific information for "Part 3 - Warranty Information" of the Statement of Limited Warranty.

You can also obtain a copy of the Statement of Limited Warranty from your IBM Sales Representative or your IBM reseller. For IBM in Canada or the United States, call 1-800-IBM-SERV (or 1-800-426-7378). For IBM in the European Union (EU), Asia Pacific, and Latin America countries, contact IBM in that country or visit the IBM Directory of Worldwide Contacts at the following IBM Internet website: <http://www.ibm.com/planetwide/>.

Informace o záruce IBM

Typ stroje (strojů)	Země nákupu	Záruční doba (roky)	Typ záručního servisu *	Servisní úroveň *
IBM eX5 MAX5 to x3690 X5 QPI Cable Kit	Celosvětově	1	1	1

Typy záručního servisu: 1) CRU (Customer Replaceable Unit); 5) CRU and On-site; 6) CRU and Courier or Depot; 7) CRU and Customer Carry-in or Mail-in; 8) CRU and Machine Exchange.

Servisní úrovně: 1) Další pracovní den (Next Business Day, NBD), 9x5; 2) Stejný pracovní den (Same Business Day, SBD), 9x5; 3) Stejný den (Same Day), 24x7.

* Vysvětlení termínů "Typ záručního servisu" a "Servisní úroveň" najdete v dokumentu *Prohlášení o omezené záruce*.

Dokument *Prohlášení o omezené záruce* pro tento produkt získáte na webové stránce IBM http://www.ibm.com/servers/support/machine_warranties/. Dokument *Prohlášení o omezené záruce* je k dispozici v 17 jazykových verzích. Ve výše uvedené tabulce najdete informace specifické pro daný produkt, které se vztahují k části "Část 3 - Informace o záruce" v dokumentu *Prohlášení o omezené záruce*.

Dokument *Prohlášení o omezené záruce* můžete získat také od vašeho zástupce IBM nebo prodejce IBM. V Kanadě nebo ve Spojených státech volejte 1-800-IBM-SERV (nebo 1-800-426-7378).

V zemích Evropské unie (EU), v zemích Asie a Pacifické oblasti a v zemích Latinské Ameriky kontaktujte IBM v dané zemi nebo navštivte adresář IBM celosvětových kontaktů na těchto webových stránkách IBM: <http://www.ibm.com/planetwide/>.

IBM 保修信息

机器类型	购买地所在国家或地区	保修期（年）	保修服务类型*	服务级别*
IBM eX5 MAX5 to x3690 X5 QPI Cable Kit	全球	1	1	1

保修服务类型：1) 客户可更换部件（CRU）；5) CRU 和现场服务；6) CRU 和专人取送或仓库维修；7) CRU 和客户送修或邮寄送修；8) CRU 和机器更换服务。

服务级别：1) 下一个工作日（NBD），9x5；2) 同一个工作日（SBD），9x5；3) 当天，24x7。

* 请参阅 *IBM 有限保证声明* 中的“保修服务类型”和“服务级别”，获取保修服务类型和服务级别的说明。

您还可以从以下 IBM Web 站点获得 *IBM 有限保证声明* 的副本：

http://www.ibm.com/servers/support/machine_warranties/。该站点提供 17 种语言的有限保证声明。上表提供该有限保证声明中“第三部分 — 保修信息”的特定于产品的信息。

您还可以从 IBM 销售代表或 IBM 经销商处获得有限保证声明的副本。要联系加拿大或美国的 IBM 分支机构，请拨打电话 1-800-IBM-SERV（或 1-800-426-7378）。

要联系欧盟（EU）、亚太地区以及拉丁美洲国家或地区的 IBM 分支机构，请与所在国家或地区的 IBM 办事处联系或访问以下 IBM 网站：<http://www.ibm.com/planetwide/>。

IBM 保證資訊

機型	採購國家或地區	保固期間（年）	保固服務類型*	服務等級*
IBM eX5 MAX5 to x3690 X5 QPI Cable Kit	全球	1	1	1

保固服務類型：1) 客戶可自行更換組件 (CRU)；5) CRU 及站上；6) CRU 及快遞或維修站；7) CRU 及客戶親自送件或郵寄送件；8) CRU 及機器交換。**服務等級：**1) 營業日隔天 (NBD)，9x5；2) 營業日當天 (SBD)，9x5；3) 當天，全年 24 小時無休。

* 請參閱「*IBM 有限保證聲明*」中的「保固服務類型」及「服務等級」，以取得保固服務類型及服務等級的說明。

您可以從 IBM 網站取得本產品的「*IBM 有限保證聲明*」：

http://www.ibm.com/servers/support/machine_warranties/。

此網站提供 17 種語言之「有限保證聲明」。上表提供「有限保證聲明」中「第三部分 - 保證資訊」的產品特定資訊。

您也可以向您的「IBM 業務代表」或 IBM 轉銷商索取「有限保證聲明」。若為加拿大或美國之 IBM，請電洽：1-800-IBM-SERV（或 1-800-426-7378）。如需歐盟 (EU)、亞太地區及拉丁美洲各國之 IBM 資訊，請聯絡該國家或地區之 IBM，或造訪 IBM 網站上的 IBM Directory of Worldwide Contacts：<http://www.ibm.com/planetwide/>。

Informations relatives à la garantie IBM

Type(s) de machine	Pays d'acquisition	Période de garantie (en années)	Type de service prévu par la garantie*	Niveau de service*
IBM eX5 MAX5 to x3690 X5 QPI Cable Kit	Monde	1	1	1

Types de garantie : 1) Unité remplaçable par l'utilisateur (CRU) ; 5) CRU et Service sur site ; 6) CRU et Service de collecte ou de dépôt ; 7) CRU et Service de livraison ou d'expédition par le client ; 8) CRU et Service de remplacement de Machine.

Niveaux de service : 1) Jour ouvré suivant (NBD), 9x5 ; 2) Même jour ouvré (SBD), 9x5 ; 3) Même jour, 24x7.

* Pour plus d'informations sur les types de garantie et les niveaux de service, voir "Type de garantie" et "Niveaux de service" dans la Déclaration de Garantie IBM.

Pour vous procurer un exemplaire de la Déclaration de Garantie IBM pour ce produit, rendez-vous sur le site Web d'IBM à l'adresse : http://www.ibm.com/servers/support/machine_warranties/. La Déclaration de Garantie est disponible sur ce site dans 17 langues. Le tableau ci-dessus fournit les informations spécifiques au produit pour le "Chapitre 3 : Informations relatives à la Garantie" de la Déclaration de Garantie.

Pour vous procurer un exemplaire de la Déclaration de Garantie, contactez votre ingénieur commercial IBM ou votre revendeur IBM. Au Canada ou aux Etats-Unis, appelez le 1-800-IBM-SERV (ou 1-800-426-7378). Dans les pays de l'Union européenne (UE), de la zone Asie-Pacifique et d'Amérique latine, prenez contact avec IBM dans le pays où vous résidez ou visitez le site d'IBM Directory of Worldwide Contacts, à l'adresse suivante : <http://www.ibm.com/planetwide/fr/>.

Informationen zum Herstellerservice von IBM

Maschinen-typ(en)	Land des Erwerbs	Zeitraum des Herstellerservice (Jahre)	Art des Herstellerservice*	Service-Level*
IBM eX5 MAX5 to x3690 X5 QPI Cable Kit	Weltweit	1	1	1

Art des Herstellerservice: 1) CRU-Service; 5) CRU-Service und Service vor Ort; 6) CRU-Service und Kurier- oder Aufbewahrungsservice; 7) CRU-Service und Anlieferung durch den Kunden oder Versand; 8) CRU-Service und Maschinenaustauschservice.

Service-Levels: 1) Am nächsten Arbeitstag (NBD), 9x5; 2) Am selben Arbeitstag (SBD), 9x5; 3) Am selben Tag, 24x7.

* Unter "Art des Herstellerservice" und "Service-Levels" im Dokument "Freiwilliger Herstellerservice" werden die verschiedenen Arten des Herstellerservice und die Service-Levels näher erläutert.

Ein Exemplar des Dokuments "Freiwilliger Herstellerservice" für dieses Produkt kann über die IBM Website http://www.ibm.com/servers/support/machine_warranties/ heruntergeladen werden. Das Dokument steht auf dieser Site in 17 Sprachen zur Verfügung. Die obige Tabelle enthält die produkt-spezifischen Informationen für "Teil 3 - Informationen zum Herstellerservice".

Das Dokument "Freiwilliger Herstellerservice" ist auch beim zuständigen IBM Vertriebsbeauftragten oder IBM Reseller erhältlich. In Kanada und den Vereinigten Staaten von Amerika lautet die Telefonnummer des IBM Service wie folgt: 1-800-IBM-SERV (oder 1-800-426-7378). In den Ländern der Europäischen Union (EU), des asiatisch-pazifischen Raums und Lateinamerikas sollte sich der Kunde direkt an IBM vor Ort wenden oder die Kontaktinformationen im IBM Directory of Worldwide Contacts auf der folgenden IBM Internet-Website nachschlagen: <http://www.ibm.com/planetwide/>.

IBM - Πληροφορίες σχετικά με την Εγγύηση

Τύπος(-οι) Μηχανής	Χώρα Αγοράς	Περίοδος Εγγύησης (Ετη)	Είδος Υπηρεσιών Εγγύησης*	Επίπεδο των Υπηρεσιών*
IBM eX5 MAX5 to x3690 X5 QPI Cable Kit	Παγκοσμίως	1	1	1

Είδη Υπηρεσιών Εγγύησης: 1) Υπηρεσίες Μονάδων Αντικαθιστώμενων από τον Πελάτη ("μονάδες CRU"), 5) Υπηρεσίες CRU και Επί Τόπου Υπηρεσίες, 6) Υπηρεσίες CRU και Υπηρεσίες Courier ή Depot, 7) Υπηρεσίες CRU και Υπηρεσίες με Μεταφορά ή Αποστολή από τον Πελάτη, 8) Υπηρεσίες CRU και Ανταλλαγής Μηχανής.

Επίπεδα των Υπηρεσιών: 1) Επόμενη Εργάσιμη Ημέρα (Next Business Day - NBD), 9x5, 2) Ίδια Εργάσιμη Ημέρα (Same Business Day - SBD), 9x5, 3) Ίδια Ημέρα, 24x7.

* Ανατρέξτε στις ενότητες "Είδη Υπηρεσιών Εγγύησης" και "Επίπεδα των Υπηρεσιών" στη Δήλωση Περιορισμένης Εγγύησης της IBM για μια επεξήγηση των διαφόρων ειδών υπηρεσιών εγγύησης και επιπέδων υπηρεσιών.

Μπορείτε να αποκτήσετε ένα αντίγραφο της Δήλωσης Περιορισμένης Εγγύησης της IBM για αυτό το προϊόν από την ακόλουθη ιστοσελίδα της IBM στο Internet:

http://www.ibm.com/servers/support/machine_warranties/.

Η Δήλωση Περιορισμένης Εγγύησης της IBM διατίθεται σε αυτή την ιστοσελίδα σε 17 γλώσσες.

Στον παραπάνω πίνακα παρέχονται οι πληροφορίες για το συγκεκριμένο προϊόν για το "Μέρος 3 - Πληροφορίες σχετικά με την Εγγύηση" της Δήλωσης Περιορισμένης Εγγύησης.

Μπορείτε επίσης να αποκτήσετε ένα αντίγραφο της Δήλωσης Περιορισμένης Εγγύησης από τον Εκπρόσωπο Πωλήσεων της IBM ή το μεταπωλητή προϊόντων της IBM. Για να επικοινωνήσετε με την IBM στον Καναδά ή στις Ηνωμένες Πολιτείες, καλέστε τον αριθμό 1-800-IBM-SERV (ή 1-800-426-7378). Για να επικοινωνήσετε με την IBM στην Ευρωπαϊκή Ένωση (ΕΕ), στην Ασία/Ειρηνικός και στις χώρες της Λατινικής Αμερικής, απευθυνθείτε στα τοπικά γραφεία της IBM στη συγκεκριμένη χώρα ή επισκεφθείτε τον κατάλογο "IBM Directory of Worldwide Contacts" στην ακόλουθη ιστοσελίδα της IBM στο Internet: <http://www.ibm.com/planetwide/>.

Informazioni di Garanzia di IBM

Tipi di macchine	Paese di acquisto	Periodo di garanzia (anni)	Tipo di garanzia Servizio*	Livello di servizio*
IBM eX5 MAX5 to x3690 X5 QPI Cable Kit	Worldwide	1	1	1

Tipi di garanzia di servizio: 1) Customer Replaceable Unit (CRU); 5) CRU e On-site; 6) CRU e Courier o Depot; 7) CRU e Customer Carry-in o Mail-in; 8) CRU e Machine Exchange.

Livelli di servizio: 1) Next Business Day (NBD), 9x5; 2) Same Business Day (SBD), 9x5; 3) Same Day, 24x7.

* Fare riferimento a "Tipo di servizio di garanzia" e a "Livelli di servizio" nell'IBM Statement of Limited Warranty per informazioni sui tipi di servizi di garanzia e sui livelli di servizio.

È possibile ottenere una copia dell'IBM Statement of Limited Warranty per questo prodotto dal sito Web IBM all'indirizzo http://www.ibm.com/servers/support/machine_warranties/. La Statement of Limited Warranty è disponibile su questo sito in 17 lingue. La tabella precedente fornisce le informazioni specifiche del prodotto per "Parte 3 - Informazioni sulla garanzia" della Statement of Limited Warranty.

È inoltre possibile ottenere una copia della Statement of Limited Warranty dal rappresentante IBM o dal rivenditore IBM. Per IBM in Canada o negli Stati Uniti, contattare 1-800-IBM-SERV (o 1-800-426-7378).

Per IBM in Europa (EU), Asia Pacifico e America latina, contattare IBM in quel paese oppure visitare la IBM Directory of Worldwide Contacts sul sito Web IBM all'indirizzo:

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

IBM 保証情報

マシン・タイプ	購入した国	保証期間 (年)	保証サービスの種類	サービス・レベル*
IBM eX5 MAX5 to x3690 X5 QPI Cable Kit	世界共通	1	1	1

保証サービスの種類: 1) カスタマー交換可能ユニット (CRU); 5) CRU と オンサイト・サービス;
6) CRU と クーリエ・サービス; 7) CRU と 持ち込みまたは郵送サービス; 8) CRU と 機械交換サービス
サービス・レベル: 1) Next Business Day (NBD)、9 時間×週 5 日; 2) Same Business Day (SBD)、
9 時間×週 5 日; 3) Same Day、24 時間×週 7 日

* 保証サービスの種類とサービス・レベルの説明については、「IBM 保証の内容と制限」の
「保証サービスの種類」と「保証サービスのサービス・レベル」を参照してください。

本製品向けの「IBM 保証の内容と制限」のコピーは、IBM Web サイト
(http://www.ibm.com/servers/support/machine_warranties/) から入手可能です。
上記のサイトでは、「保証の内容と制限」が、17 カ国語で表示されます。
上の表では、「保証の内容と制限」の『第 3 章 - 保証情報』にある製品固有の情報を示しています。

「保証の内容と制限」のコピーは、IBM 営業担当員あるいは販売店から入手いただくことも
可能です。カナダまたは米国では、1-800-IBM-SERV (または 1-800-426-7378) に電話して
ください。EU 諸国、アジア太平洋諸国、およびラテンアメリカ諸国の IBM の場合、それぞれの
国の IBM にお問い合わせいただくか、または次の IBM インターネット Web サイトにある
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IBM 보증 정보

시스템 유형	구매 국가	보증 기간(년)	보증 서비스 유형*	서비스 레벨*
IBM eX5 MAX5 to x3690 X5 QPI Cable Kit	전세계	1	1	1

보증 서비스 유형: 1) 고객 교체 가능 장치(CRU) 5) CRU 및 현장 방문 6) CRU 및 특급 배송 또는
디포(Depot) 7) CRU 및 고객 직접 운송 또는 택배 접수 8) CRU 및 시스템 교체
서비스 레벨: 1) 익영업일(NBD), 9x5 2) 당일 영업일(SBD), 9x5 3) 당일, 24x7

* 보증 서비스 유형 및 서비스 레벨에 대한 자세한 내용은 IBM 제한 보증서의 "보증 서비스 유형"의
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연락처를 방문하십시오. <http://www.ibm.com/planetwide/>

IBM garrantijos informacija

Įrenginio tipas (-ai)	Pirkimo šalis	Garantijos laikotarpis (metais)	Garantinės priežiūros paslaugos tipas*	Paslaugos lygis*
IBM eX5 MAX5 to x3690 X5 QPI Cable Kit	Pasaulinis	1	1	1

Garantinės priežiūros paslaugų tipai: 1) Kliento keičiamos dalys (CRU); 5) CRU ir priežiūros paslauga, teikiama vietoje; 6) CRU ir kurjerio arba saugojimo paslauga; 7) CRU ir kliento atgabenimo ar atsuntimo paslauga; 8) CRU ir Įrenginio keitimo paslauga.

Paslaugos lygiai: 1) Kitą darbo dieną (NBD), 9x5; 2) Tą pačią darbo dieną (SBD), 9x5; 3) Tą pačią dieną, 24x7.

* Paaiškinimus apie garantinės priežiūros paslaugos tipus ir paslaugų lygius žr. IBM ribotos garrantijos pareiškimo skyriuose „Garantinės priežiūros paslaugos tipas“ ir „Paslaugos lygiai“.

IBM ribotos garrantijos pareiškimo kopiją galite įsigyti IBM žiniatinklio svetainėje http://www.ibm.com/servers/support/machine_warranties/. Ribotos garrantijos pareiškimas svetainėje pateikiamas 17 kalbų. Aukščiau esančioje lentelėje pateikiama Ribotos garrantijos pareiškimo skyriaus „3 dalis – garrantijos informacija“ specifinė produkto informacija.

Ribotos garrantijos pareiškimo kopiją taip pat galite įsigyti iš IBM pardavimo atstovo arba IBM perpardavėjo. Kanadoje arba Jungtinėse Amerikos Valstijose IBM skambinkite 1-800-IBM-SERV (arba 1-800-426-7378). Europos Sąjungos (ES), Azijos ir Ramiojo vandenyno regiono bei Lotynų Amerikos šalyse susisiekit su tos šalies IBM padaliniu arba apsilankykite IBM pasaulio kontaktų kataloge, kuris yra šioje IBM interneto svetainėje: <http://www.ibm.com/planetwide/>.

Informaciję gvarancyjne IBM

Typ Maszynny	Kraj zakupu	Okres gwarancyjny (w latach)	Typ serwisu gwarancyjnego*	Poziom usług*
IBM eX5 MAX5 to x3690 X5 QPI Cable Kit	Cały świat	1	1	1

Typy serwisu gwarancyjnego: 1) Części wymieniane przez Klienta (Customer Replaceable Units, zwane dalej "Częściami CRU"); 5) Części CRU wymieniane na miejscu u Klienta; 6) Części CRU i serwis wysyłkowy lub kurierski; 7) Części CRU i serwis z wysyłką lub transportem przez Klienta; 8) Części CRU i wymiana maszyny.

Poziomy świadczenia serwisu: 1) następny dzień roboczy, 9x5; 2) ten sam dzień roboczy, 9x5; 3) ten sam dzień, 24x7.

* Typy serwisu gwarancyjnego oraz poziomy usług zostały wyjaśnione w paragrafach:

"Typ serwisu gwarancyjnego" i "Poziomy usług" Warunków Ograniczonej Gwarancji IBM.

Egzemplarz Warunków Ograniczonej Gwarancji dla tego produktu można pobrać z serwisu WWW IBM, znajdującego się pod adresem http://www.ibm.com/servers/support/machine_warranties/. Warunki Ograniczonej Gwarancji są tam dostępne w 17 językach. Powyższa tabela zawiera informacje specyficzne dla produktu, uzupełniające "Część 3 - Informacje gwarancyjne" Warunków Ograniczonej Gwarancji.

Egzemplarz Warunków Ograniczonej Gwarancji można otrzymać od przedstawiciela handlowego IBM lub reselera IBM. W Kanadzie i w Stanach Zjednoczonych należy zadzwonić pod numer 1-800-IBM-SERV (1-800-426-7378). W krajach Unii Europejskiej, Azji Wschodniej i Ameryki Łacińskiej należy skontaktować się z oddziałem IBM w danym kraju lub skorzystać z wykazu danych kontaktowych IBM na świecie (IBM Directory of Worldwide Contacts) pod adresem: <http://www.ibm.com/planetwide/>.

Informações sobre a Garantia da IBM

Tipo(s) de Máquina	País de Aquisição	Período de Garantia (Anos)	Tipo de Serviço de Garantia*	Nível de Serviço*
IBM eX5 MAX5 to x3690 X5 QPI Cable Kit	Todo o mundo	1	1	1

Tipos de Serviço de Garantia: 1) Unidade Substituível pelo Cliente (CRU); 5) CRU e no Local (On-site); 6) CRU e Correio Expresso ou Recolha; 7) CRU e Entrega ou Envio para a Entidade Reparadora; 8) CRU e Troca de Máquinas.

Níveis de Serviço: 1) No dia útil seguinte (DUS), 9x5; 2) No mesmo dia útil (MDU), 9x5; 3) No mesmo dia, 24x7.

* Para obter uma explicação dos tipos de serviço de garantia e dos níveis de serviço, consulte “Tipo de Serviço de Garantia” e “Níveis de Serviço” na *Declaração de Garantia Limitada IBM*.

Poderá obter uma cópia da *Declaração de Garantia Limitada IBM* referente a este produto no sítio da Web da IBM em http://www.ibm.com/servers/support/machine_warranties/. A Declaração de Garantia Limitada está disponível neste sítio em 17 idiomas. A tabela anterior fornece as informações específicas sobre o produto para a “Parte 3 - Informações Sobre a Garantia” da Declaração de Garantia Limitada.

Poderá igualmente obter uma cópia da Declaração de Garantia Limitada junto do seu Representante de Vendas ou revendedor IBM. Para contactar a IBM no Canadá ou nos E.U.A., ligue 1-800-IBM-SERV (ou 1-800-426-7378). Para contactar a IBM na União Europeia (UE), Ásia e Pacífico, e países da América Latina, contacte a IBM do respectivo país ou visite o Directório IBM de Contactos Mundiais no seguinte sítio da Web da IBM: <http://www.ibm.com/planetwide/>.

Гарантийная информация IBM

Тип Машины	Страна приобретения	Гарантийный срок (в годах)	Тип гарантийного обслуживания*	Уровень обслуживания*
IBM eX5 MAX5 to x3690 X5 QPI Cable Kit	Все страны	1	1	1

Типы Гарантийного Обслуживания: 1) Блоки, Заменяемые Заказчиком (“CRU”); 5) CRU и Обслуживание на Месте; 6) CRU и Курьерские или Складские Услуги; 7) CRU и Обслуживание при Доставке или Пересылке по Почте Силами Заказчика; 8) CRU и Обслуживание с Заменой Машины.

Уровни обслуживания: 1) На следующий рабочий день (Next Business Day - NBD), 9x5; 2) В тот же рабочий день (Same Business Day - SBD), 9x5; 3) В тот же день (Same Day - SD), 24x7.

* Описание типов и уровней гарантийного обслуживания приведено в разделах “Типы Гарантийного Обслуживания” и “Уровни обслуживания” *Положения IBM об Ограниченной Гарантии*.

Вы можете получить копию *Положения IBM об Ограниченной Гарантии* для данного продукта с Web-сайта http://www.ibm.com/servers/support/machine_warranties/. На этом сайте приведены версии Положения IBM об Ограниченной Гарантии на 17 языках. В вышеприведенной таблице содержится информация раздела “Часть 3 - Информация о Гарантии” Положения об Ограниченной Гарантии, относящаяся к этому продукту.

Копию Положения об Ограниченной Гарантии могут также предоставить торговый представитель или реселлер IBM. В Канаде или в США звоните в IBM по телефону 1-800-IBM-SERV (или 1-800-426-7378). Чтобы связаться с IBM в странах Европейского Союза (ЕС), Азии и Тихоокеанского бассейна, а также Латинской Америки, обращайтесь в офисы IBM в этих странах или посетите Международный каталог контактов IBM (IBM Directory of Worldwide Contacts) на следующем Web-сайте IBM: <http://www.ibm.com/planetwide/>.

IBM-ove garancijske informacije

Tipi računalnikov	Država nabave	Garancijski rok (v letih)	Vrsta garancijskega servisa*	Raven servisa*
IBM eX5 MAX5 to x3690 X5 QPI Cable Kit	Po vsem svetu	1	1	1

Vrste garancijskega servisa: 1) Enota, ki jo zamenja stranka (CRU); 5) CRU in pri stranki; 6) CRU in kurirska služba ali skladišče; 7) CRU in strankina dostava ali pošiljanje po pošti; 8) CRU in zamenjava računalnika.

Ravni servisa: 1) Naslednji poslovni dan (NBD), 9x5; 2) Isti poslovni dan (SBD), 9x5; 3) Isti dan 24x7.

* Razlage vrst garancijskega servisa in ravni servisa boste našli v razdelkih "Vrsta garancijskega servisa" in "Ravni servisa" v IBM-ovi izjavi o omejeni garanciji.

Naročnik lahko pridobi kopijo IBM-ove izjave o omejeni garanciji za ta izdelek na IBM-ovem spletnem mestu na naslovu http://www.ibm.com/servers/support/machine_warranties/. Izjava o omejeni garanciji je na tem spletnem mestu na voljo v 17 jezikih. Zgornja tabela podaja informacije, specifične za izdelek, za "3. del - Garancijske informacije" iz izjave o omejeni garanciji.

Naročnik lahko pridobi kopijo izjave o omejeni garanciji tudi pri svojem IBM-ovem prodajnem predstavniku ali IBM-ovem prodajalcu. Za IBM v Kanadi ali v Združenih državah Amerike naj stranke pokličejo na številko 1-800-IBM-SERV (ali 1-800-426-7378). Za IBM v Evropski uniji (EU), v pacifiškem delu Azije in v državah Latinske Amerike naj se stranke obrnejo na IBM v tej državi ali pa naj obiščejo IBM-ov imenik svetovnih stikov na naslednjem IBM-ovem spletnem mestu: <http://www.ibm.com/planetwide/>.

Información de garantía de IBM

Tipo(s) de máquina	País de compra	Periodo de garantía (años)	Tipo de servicio de garantía*	Nivel de servicio*
IBM eX5 MAX5 to x3690 X5 QPI Cable Kit	Todo el mundo	1	1	1

Tipos de servicios de garantía: 1) Unidad reemplazable por el cliente (CRU); 5) CRU y servicio in situ; 6) CRU y servicio de mensajero o depósito; 7) CRU y servicios centralizados; 8) CRU e intercambio de máquina.

Niveles de servicio: 1) Siguiendo día laborable (NBD), 9x5; 2) Mismo día laborable (SBD), 9x5; 3) Mismo día, 24x7.

* Consulte "Tipos de servicios de garantía" y "Niveles de servicio" en la *Declaración de garantía limitada de IBM* para consultar las explicaciones de los tipos de servicios de garantía y niveles de servicio.

Puede obtener una copia de la *Declaración de garantía limitada de IBM* de este producto en el sitio web http://www.ibm.com/servers/support/machine_warranties/. La Declaración de garantía limitada está disponible en este sitio en 17 idiomas. La tabla anterior proporciona información específica del producto para la "Parte 3 - Información sobre la garantía" de la Declaración de garantía limitada.

También puede obtener una copia de la Declaración de garantía limitada a través de su representante comercial de IBM o distribuidor de IBM. Para IBM de Canadá o Estados Unidos, llame al 1-800-IBM-SERV (o 1-800-426-7378). Para IBM de la Unión Europea (UE), Asia-Pacífico y América Latina, póngase en contacto con IBM del país o visite el Directorio de contacto IBM en el mundo en el siguiente sitio web de IBM: <http://www.ibm.com/planetwide/>.

IBM Garanti Bilgileri

Makine Tip(ler)i	Satın Alınan Ülke	Garanti Süresi (Yıl)	Garanti Hizmeti Tipi*	Hizmet Seviyesi*
IBM eX5 MAX5 to x3690 X5 QPI Cable Kit	Dünya çapında	1	1	1

Garanti Hizmeti Tipleri: 1) Müşteri Tarafından Değiştirilebilir Birim (CRU); 5) CRU ve Müşteri Yerinde Teslim; 6) CRU ve Kurye veya Depo; 7) CRU ve Müşteri Tarafından Teslim veya Posta ile Teslim; 8) CRU ve Makine Değiştirme Hizmeti.

Hizmet Seviyeleri: 1) Sonraki İşgünü (NBD), 9x5; 2) Aynı İşgünü İçinde (SBD), 9x5; 3) Aynı Gün, 24x7.

* Garanti hizmeti tiplerine ve hizmet seviyelerine ilişkin ayrıntılı bilgi almak için *IBM Sınırlı Garanti Bildirimi* içinde yer alan “Garanti Hizmeti Tipi” ve “Hizmet Seviyeleri” başlıklı bölümlere bakın.

Bu ürün için *IBM Sınırlı Garanti Bildirimi*'nin bir kopyasını aşağıda URL adresi verilen IBM Web sitesinden de edinebilirsiniz: http://www.ibm.com/servers/support/machine_warranties/. Bu sitede 17 farklı dilde Sınırlı Garanti Bildirimi sağlanmaktadır. Yukarıdaki tabloda, Sınırlı Garanti Bildirimi “Bölüm 3 - Garanti Bilgileri” başlıklı bölümde yer alan ürüne özgü bilgiler bulunur.

Ayrıca, IBM Satış Temsilcinizden veya IBM Satıcınızdan Sınırlı Garanti Bildirimi'nin bir kopyasını da edinebilirsiniz. IBM Kanada veya IBM ABD için şu numaraları arayabilirsiniz: 1-800-IBM-SERV (veya 1-800-426-7378). Avrupa Birliği (AB), Asya Pasifik ve Güney Amerika ülkelerinde, IBM ile iletişim kurmak için, ilgili ülkelerdeki IBM ile iletişim kurun veya aşağıda URL adresi belirtilen IBM İnternet Web sitesindeki IBM Directory of Worldwide Contacts (Dünya Çapındaki IBM İletişim Sorumlulukları Dizini) başlıklı sayfayı ziyaret edin: <http://www.ibm.com/planetwide/>.

Appendix B. Environmental notices

The multilingual *IBM Systems Environmental Notices and User's Guide* is provided on the IBM *Documentation CD* or *DVD* that came with your server. This section contains additional environmental notices.

Restriction of hazardous substances

有毒有害物质或元素名称及含量标识

Toxic / Hazardous Substances and Elements Table

部件名称 (Parts)	有毒有害物质或元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr (VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
机架 chassis	○	○	○	○	○	○
外部盖板 external covers	○	○	○	○	○	○
机械组合件 mechanical assemblies	○	○	○	○	○	○
空气传动设备 air moving devices	×	○	○	○	○	○
冷却组合件 cooling assembly	×	○	○	○	○	○
内存模块 memory modules	×	○	○	○	○	○
处理器模块 processor modules	×	○	○	○	○	○
键盘 keyboard	×	○	○	○	○	○
调制解调器 modem	×	○	○	○	○	○
监视器 monitor	×	×	○	○	○	○
鼠标 mouse	×	○	○	○	○	○
电缆组合件 cable assemblies	×	○	○	○	○	○
电源 power supply	×	○	○	○	○	○
存储设备 storage device	×	○	○	○	○	○
电池匣组合件 battery pack assembly	×	○	○	○	○	○
电池 batteries	×	○	○	○	○	○
有 mech 的电路卡 circuit cards with mechs	×	○	○	○	○	○
无 mech 的电路卡 circuit cards w/o mechs	×	○	○	○	○	○
激光器 laser	×	○	○	○	○	○

○：指示部件的所有均质材料中有毒和危险物质的含量均低于 SJ/T 11363-2006 中所描述的浓度限制要求。
○: indicates that the content of the toxic and hazardous substance in all the homogeneous materials of the part is below the concentration limit requirement as described in SJ/T 11363-2006.

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Environmental Protection Use Period (EPUP) Disclaimer: The number provided as the EPUP is provided solely to comply with applicable laws of the People's Republic of China. It does not create any warranties or liabilities on behalf of IBM to customer. The EPUP assumes that the product will be used under normal conditions in accordance with the IBM operating manual. Certain assemblies inside this product (for example, assemblies that contain a battery) may have an EPUP which is lower than the EPUP on this product.

Addendum to Environmental Notices and User's Guide

WEEE notice for Croatia:

Dodatak s Napomenama o zaštiti okoliša i Vodičem za korisnike

Ograničenja: International Business Machines Corporation (ili njegove podružnice odgovorne za prijenos predmetnog Sistema) ("IBM") pretpostavljaju da su dolje navedene informacije točne, ali, osim do mjere propisane zakonom, ne preuzimaju nikakve obveze, ne odobravaju i ne potvrđuju niti jedan dio tih informacija. IBM daje sve takve informacije "KAKO JE", bez izravnih ili posrednih jamstava bilo koje vrste. IBM rezervira pravo za ažuriranje i promjenu ovih informacija bez prethodne obavijesti, ako IBM misli da je to potrebno. Međutim, IBM nema namjeru u neko određeno vrijeme davati bilo kakva ažuriranja ili promjene.

Recikliranje i zbrinjavanje proizvoda



Napomena: Ova oznaka na proizvodima se odnosi na zemlje unutar Europske Unije (EU), Hrvatsku, Island, Norvešku i druge zemlje gdje je zakonom određeno da su taj simbol i odgovarajući programi za zbrinjavanje proizvoda obavezni.

U skladu s hrvatskim Pravilnikom o gospodarenju otpadnim električnim i elektroničkim uređajima i opremom, električka i elektronička oprema (EEE) se mora odvojeno skupljati i ponovno koristiti, reciklirati ili obnoviti na kraju korištenja. Simbol iz Dodatka IV ovog pravilnika označava potrebu odvojenog skupljanja za električni i elektronički otpad. Korisnici EEE s gornjom oznakom na proizvodu ne smiju nakon iskorištenja odbaciti EEE kao nerazvrstani gradski otpad, nego moraju koristiti načine koji su korisnicima dostupni za povrat, recikliranje i obnavljanje WEEE. Sudjelovanje korisnika je važno radi smanjenja mogućih EEE učinaka na okolinu i zdravlje ljudi, zbog mogućeg prisutnosti opasnih materijala u EEE.

Battery notice for the Czech Republic:

Program zpětného odběru baterií



Upozornění: Tato značka pro baterie a akumulátory nebo jejich moduly platí pro členské státy Evropské unie (EU), Chorvatsko a další jurisdikce, ve kterých jsou tento symbol a příslušné programy zpětného odběru baterií a akumulátorů vyžadovány.

Podle směrnice 2006/66/ES a podle předpisů jurisdikcí vyžadujících tuto značku a odpovídající programy zpětného odběru baterií a akumulátorů mají být baterie a akumulátory po uplynutí životnosti shromažďovány odděleně a recyklovány. Značka na bateriích má také obsahovat chemickou značku kovu obsaženého v baterii (Pb, Hg, Cd v případě olova, rtuti a kadmia). U vnitřních baterií a akumulátorů je nesmí likvidovat s netříděným komunálním odpadem, nýbrž je musí vrátit v síti sběru k recyklaci a zpracování. Spolupráce u vnitřních baterií je dále itá pro minimalizaci případných možných účinků baterií a akumulátorů na životní prostředí a lidské zdraví v důsledku obsahu nebezpečných látek. Informace o řádném sběru a likvidaci obdržíte u místního zástupce společnosti IBM.

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Important notes

Processor speed indicates the internal clock speed of the microprocessor; other factors also affect application performance.

CD or DVD drive speed is the variable read rate. Actual speeds vary and are often less than the possible maximum.

When referring to processor storage, real and virtual storage, or channel volume, KB stands for 1024 bytes, MB stands for 1,048,576 bytes, and GB stands for 1,073,741,824 bytes.

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Table 1. Limits for particulates and gases

Contaminant	Limits
Particulate	• The room air must be continuously filtered with 40% atmospheric dust spot efficiency (MERV 9) according to ASHRAE Standard 52.2¹. • Air that enters a data center must be filtered to 99.97% efficiency or greater, using high-efficiency particulate air (HEPA) filters that meet MIL-STD-282. • The deliquescent relative humidity of the particulate contamination must be more than 60%². • The room must be free of conductive contamination such as zinc whiskers.
Gaseous	• Copper: Class G1 as per ANSI/ISA 71.04-1985³ • Silver: Corrosion rate of less than 300 Å in 30 days

¹ ASHRAE 52.2-2008 - *Method of Testing General Ventilation Air-Cleaning Devices for Removal Efficiency by Particle Size*. Atlanta: American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

² The deliquescent relative humidity of particulate contamination is the relative humidity at which the dust absorbs enough water to become wet and promote ionic conduction.

³ ANSI/ISA-71.04-1985. *Environmental conditions for process measurement and control systems: Airborne contaminants*. Instrument Society of America, Research Triangle Park, North Carolina, U.S.A.

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Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

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Telephone: +49 7032 15-2937
E-mail: tjahn@de.ibm.com

Germany Class A statement

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Das Gerät erfüllt die Schutzanforderungen nach EN 55024 und EN 55022
Klasse A.

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Part Number: 81Y1230

Printed in USA

(1P) P/N: 81Y1230

