

HP BladeSystem c7000 Enclosure

Quick Setup Instructions



A Important Safety Information

Before installation, read *Important Safety Information* on the Documentation CD.

.Documentation CD على القرص المضغوط قبل التثبيت. اقرأ معلومات هامة حول السلامة على القرص المضغوط

Před instalací si přečtěte příručku *Dôležité bezpečnostní informace* na disku CD.

安装之前, 请阅读文档 CD 上的重要安全信息。

安装前, 請閱讀說明文件光碟上的「重要的安全性資訊」。

Læs dokumentet *Vigtige sikkerhedsoplysninger* på dokumentations-cd'en, før produktet installeres.

Lesen Sie vor der Installation die *Sicherheitshinweise* auf der Documentation CD.

Enne installimist vt dokumentatsiooni CD-lt peatükki „*Tähtis ohutusteave*“.

Antes de la instalación, lea la sección *Información de seguridad importante* del CD Documentación.

Avant l'installation, lisez les *informations importantes relatives à la sécurité* CD Documentation.

Πριν την εγκατάσταση, διαβάστε *Σημαντικές πληροφορίες ασφαλείας* στο CD Documentation.

(תיעוד CD-בש עברית תופסב עד מה תארך, הצעה לפניהם)

Prije ugradnje, pročitajte *Važne sigurnosne informacije* na dokumentacijskom CD-u.

Prima dell'installazione, leggere sul CD le *Informazioni importanti sulla sicurezza*.

インストール前に、Documentation CDの『安全に使用していただくために』をお読みください。

설치하기 전에 Documentation CD의 주요 안전 수칙을 읽으십시오.

Pirms instalācijas, izlasīt drošības informāciju dokumentācijas CD.

Prieš diegdamis perskaitykite *Svarbią saugos informaciją* dokumentacijos CD.

Telepítés előtt olvassa el a dokumentációs CD *Fontos biztonsági tudnivalók* dokumentumát.

Lees de *Belangrijke veiligheidsinformatie* op de documentatie-cd voordat u de installatie uitvoert.

Les "Viktige sikkerhetsinformasjon" på dokumentasjons-cd-en før du installerer dette produktet.

Przed instalacją przeczytaj *Ważne informacje dotyczące bezpieczeństwa*

na dysku CD Documentation.

Antes da instalação, leia as *Informações Importantes sobre Segurança* no CD da Documentação.

Перед установкой ознакомьтесь с разделом Указания по технике безопасности на компакт-диске «Документация».

Pred instaláciou si prečítajte časť *Dôležité bezpečnostné informácie* na disku Documentation CD.

Pred namestitevijo preberite *Pomembne varnostne informacije* na CD-ju Documentation.

Tärkeisiin turvatietoihin" Documentation CD -levyllä ennen tuotteen asentamista.

Läs dokumentet *Viktigt säkerhetsinformation* på dokumentations-cd:n innan du installerar detta produkt.

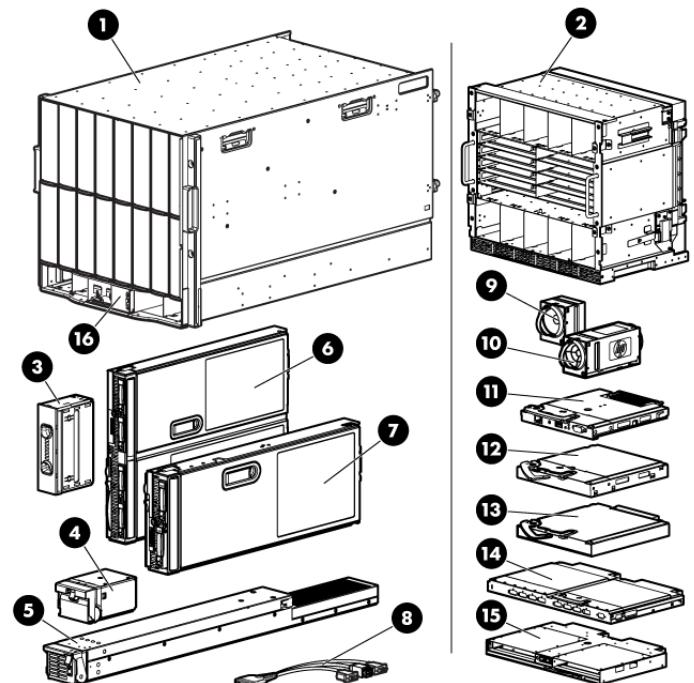
Yüklemeden önce, Documentation CD'sindeki *Önemli Güvenlik Bilgileri*'ni okuyun.

Перед установкою прочитайте *Важливі відомості з безпеки* на CD документації.

Site requirements

Select an installation site that meets the detailed installation site requirements described in the server user guide on the Documentation CD and on the HP website (<http://www.hp.com>).

Verifying the pallet contents



Item	Name	Description
1	HP BladeSystem c7000 Enclosure	The HP BladeSystem enclosure

Item	Name	Description
2	Rear cage	The rear section of the enclosure
3	Device bay blank	A mandatory insert installed in any unused device bay
4	Power supply blank	A mandatory insert installed in any unused power supply bay
5	Enclosure hot-plug power supply (quantity as ordered)	The power supply for the enclosure
6	Full-height device (quantity as ordered)	The full-height server or storage blade
7	Half-height device (quantity as ordered)	The half-height server or storage blade
8	Local I/O cable	A cable with serial, USB, and video connectors that connects to the I/O connector on the front of a blade
9	Fan blank	A mandatory insert installed in any unused fan bay
10	HP Active Cool 200 Fan (quantity as ordered)	A fan used to cool the components installed in the enclosure
11	Onboard Administrator with KVM module	Hot-pluggable enclosure management module. One module is required to manage the components installed in the enclosure. To provide redundant enclosure management, you can install an optional second module.
12	Onboard Administrator with KVM blank	A mandatory cover installed in any unused Onboard Administrator bay
13	Interconnect blank	A mandatory insert installed in any unused interconnect bay
14	Interconnect module (quantity and type as ordered)	Any of several components, such as pass-thrus or switches that enable communication between the blade and the enclosure
15	Onboard Administrator with KVM tray	Hot-pluggable tray that houses up to two Onboard Administrator modules and provides two enclosure link connectors, the rear enclosure UID, LED, and switch.
16	HP BladeSystem Insight Display	A display that provides information about the health and operation of the enclosure
17*	Power retention ties (single-phase enclosures only)	Tie straps that help prevent single-phase power cables from disconnecting from the power connectors
18*	Documentation CD	A CD containing detailed

Item	Name	Description
		documentation on using the enclosure
19*	Hard copy installation instructions for blades, options, and interconnects	The printed installation instructions
20*	Installation checklist	A checklist to guide you through installation of the enclosure and components

* Not shown

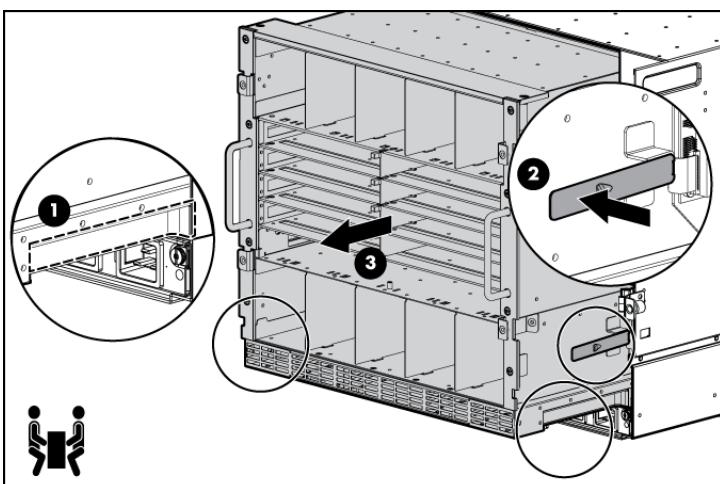
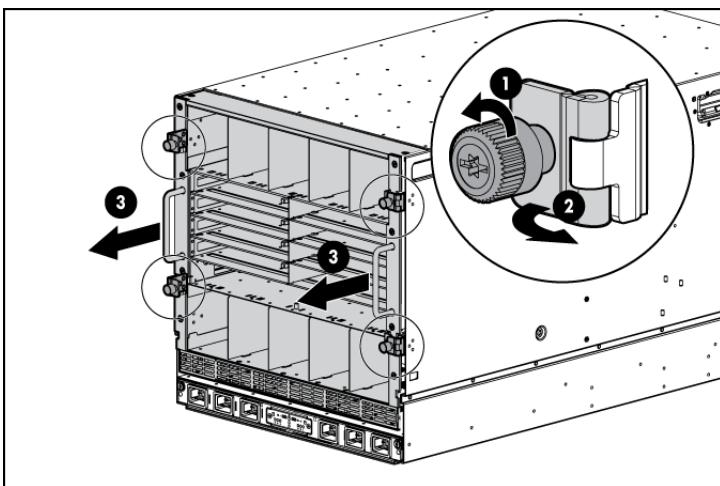
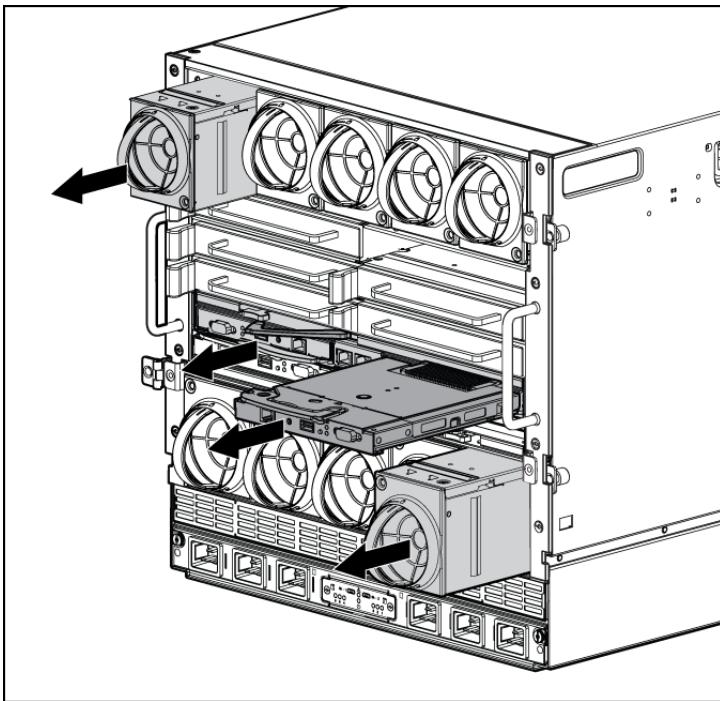
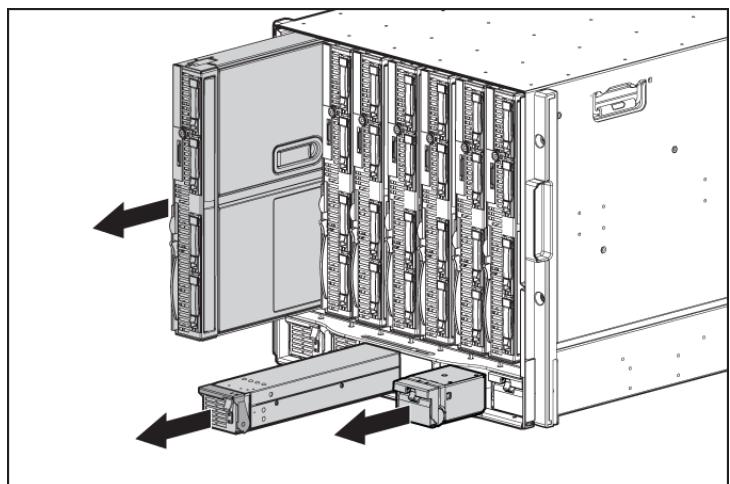
Installing the enclosure

⚠ WARNING: Because the fully-populated enclosure can weigh up to 217.7 kg (480 lb), remove all components and the rear cage from the enclosure before removing the enclosure from the pallet to reduce the risk of personal injury when moving the enclosure.

⚠ CAUTION: When removing the rear cage and midplane assembly, the connectors on the midplane assembly are susceptible to damage. Use caution to avoid damage to the pins and connectors.

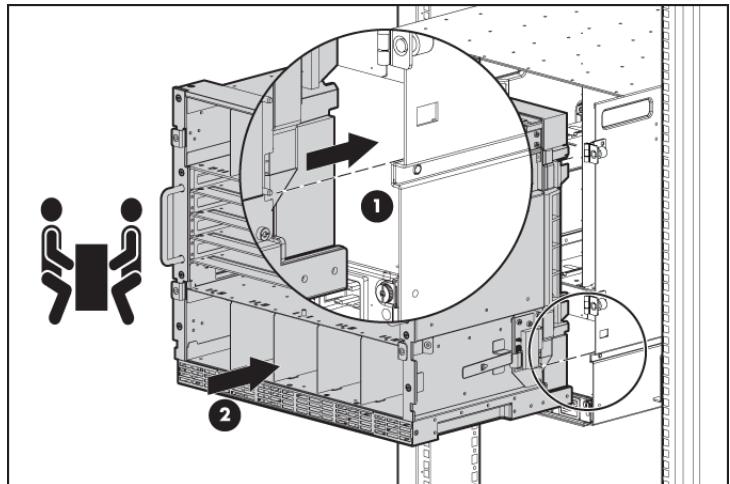
⚠ CAUTION: Be sure the hinges are completely open before installing the rear cage into the enclosure. Failure to do so can cause damage to pins and connectors.

1. The enclosure can be installed in a rack or rack-free environment. Select the proper location based on requirements detailed in the *HP BladeSystem c7000 Enclosure Setup and Installation Guide*.
2. Remove all components from the front and rear of the enclosure, and then remove the rear cage.

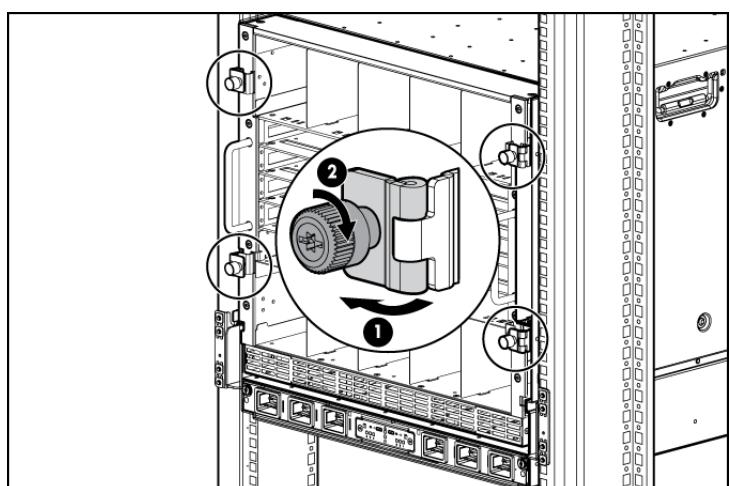
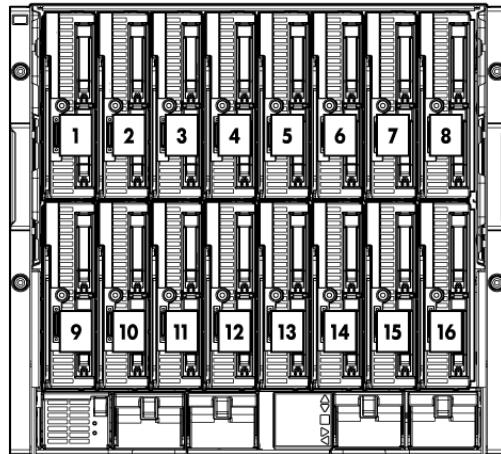


3. (Optional) Install the enclosure into a rack. See the *HP BladeSystem c7000 Enclosure Rack Template*. For rack-free installations, omit this step.

4. Install the rear cage into the enclosure, close the hinges, and tighten the thumbscrews.



Half-height device bay numbering



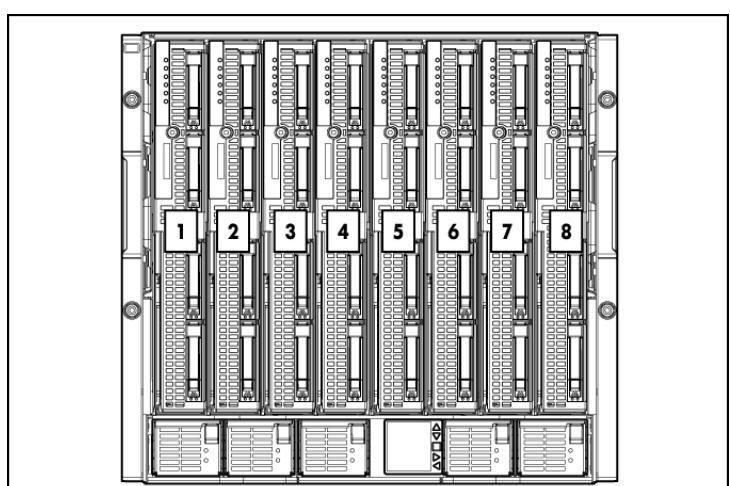
Power supply bay numbering



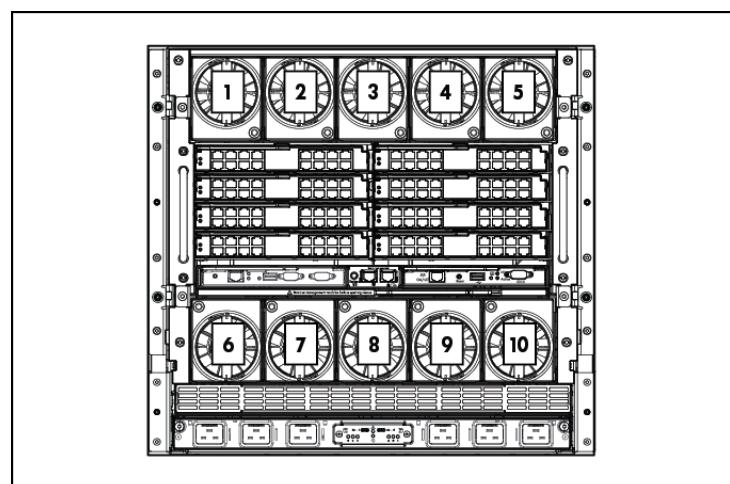
Enclosure bay identification

Before installing front or rear components into the enclosure, review enclosure bay numbering for each component.

Full-height device bay numbering



Fan bay numbering



Installing the front components

CAUTION: To prevent improper cooling and thermal damage, do not operate the enclosure unless all bays are populated with a component or a blank.

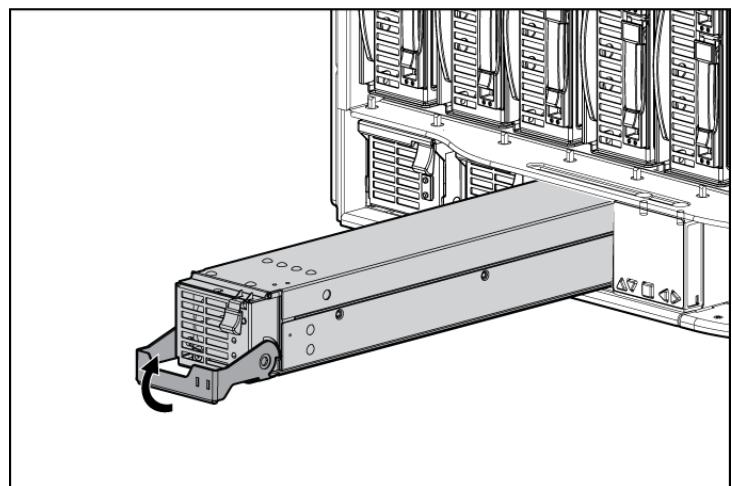


CAUTION: Do not mix HP 2250W, HP 2400W High Efficiency, HP BL7000 2400W Platinum, or -48vDC power supplies in one enclosure. Install only one type of power supply in a single enclosure.

If your HP BladeSystem c7000 Enclosure is equipped with a three-phase power configuration, you need six power supplies.

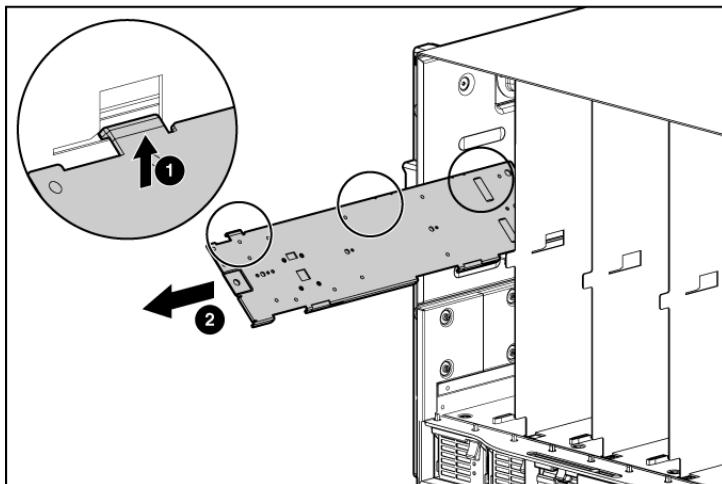
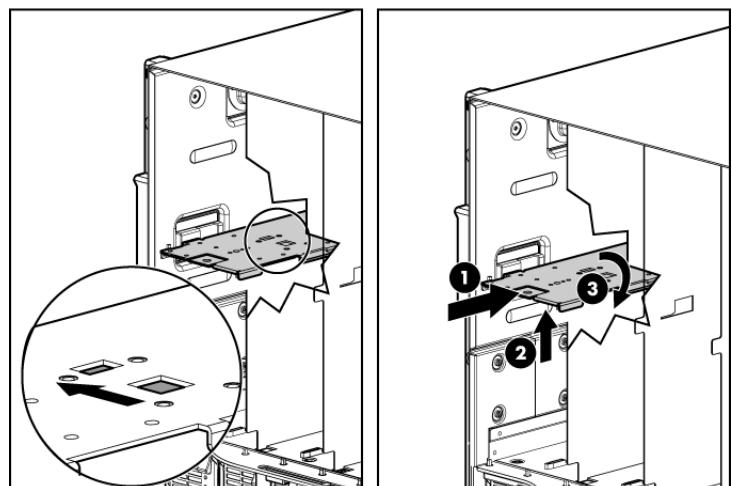
To install a power supply:

1. To gain access to all power supply bays, slide the HP BladeSystem Insight Display to the right or left as needed.
2. Remove the power supply blank.
3. Insert the power supply into the enclosure, and then close the power supply bracket.

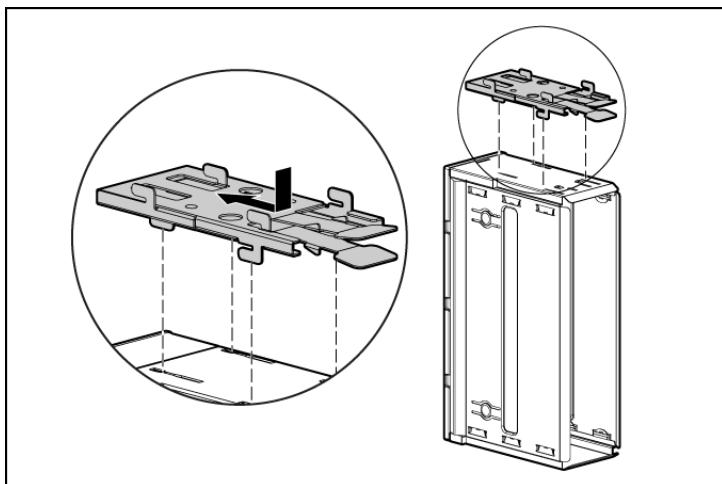


NOTE: This document discusses installation of AC power supplies only. For information on configuring DC power supplies or HP Carrier Grade Solutions, see the documentation that came with your power supply.

4. Add any ordered options to each server blade:
 - o Additional processor
 - o Additional memory
 - o Mezzanine option cards
5. (Optional) If you are installing a full-height device, remove the half-height device bay shelf. If you are installing a half-height device, omit this step.



6. Remove the connector covers.
7. Install the server or storage blades.
8. Install device bay blanks into any unused device bays.
If the empty bays are configured for a full-height device, join two device bay blanks to create a full-height blank.



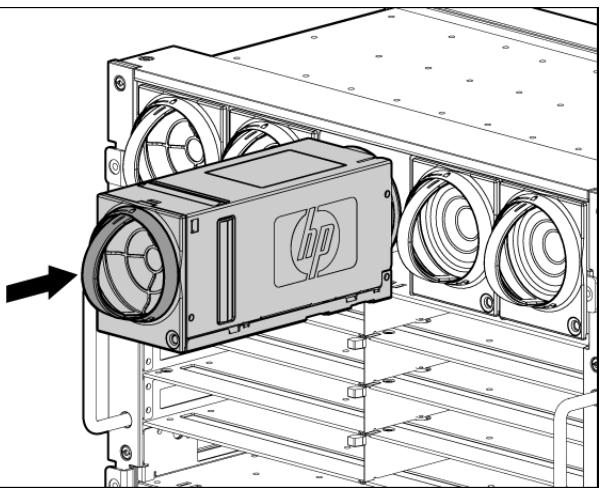
Installing the rear components



CAUTION: To prevent improper cooling and thermal damage, do not operate the enclosure unless all bays are populated with a component or a blank.

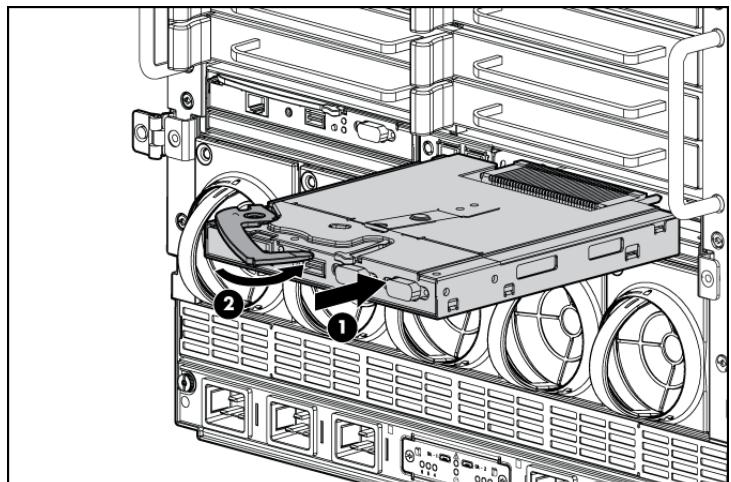
1. Install fans in even-numbered groups, based on the total number of blades installed in the enclosure:
 - o Four fan configuration—Fan bays 4, 5, 9, and 10 are used to support a maximum of two devices located in device bays 1, 2, 9, or 10. Only two device bays can be used with four fans.
 - o Six fan configuration—Fan bays 3, 4, 5, 8, 9, and 10 are used to support devices in device bays 1, 2, 3, 4, 9, 10, 11, or 12.
 - o Eight fan configuration—Fan bays 1, 2, 4, 5, 6, 7, 9, and 10 are used to support devices in all device bays.
 - o Ten fan configuration—All fan bays are used to support devices in all device bays.

NOTE: When installing a fan in the top row of fan bays, orient the fan so that the LED is in the lower right corner. When installing a fan in the bottom row of fan bays, orient the fan so the LED is in the upper left corner.



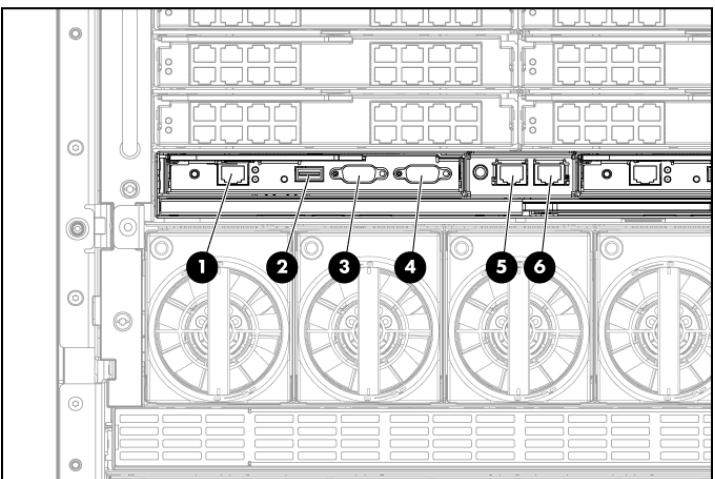
2. Install fan blanks in any unused fan bays.
3. Install the Onboard Administrator with KVM modules into the Onboard Administrator with KVM tray based on the total number ordered:
 - o One Onboard Administrator with KVM module: Bay 1
 - o Two Onboard Administrator with KVM modules: Bays 1 and 2

Install an Onboard Administrator with KVM blank into any unused Onboard Administrator with KVM bay.



Connecting the cables

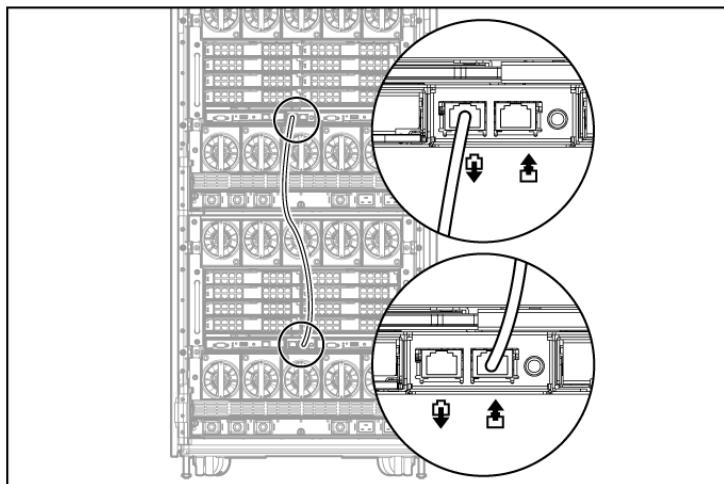
1. Identify all connectors.



Item	Connector	Description
1	OA/iLO	Ethernet 1000BaseT RJ45 connector, which provides Ethernet access to the Onboard Administrator with KVM and the iLO on each blade. Also supports interconnect modules with management processors configured to use the enclosure management network. Autonegotiates 1000/100/10 or can be configured to force 100Mb or 10Mb full duplex.
2	USB	USB 2.0 Type A connector used for connecting supported USB devices such as DVD drives, USB key drives, or a keyboard or mouse for enclosure KVM use. To connect multiple devices, a USB hub (not included) is required.
3	Serial connector	Serial RS232 DB-9 connector with PC standard pinout. Connect a computer with a null-modem serial cable to the Onboard Administrator with KVM command line interface (CLI).
4	VGA connector	VGA DB-15 connector with PC standard pinout. To access the KVM menu or Onboard Administrator with KVM CLI, connect a VGA monitor or rack KVM monitor for enclosure KVM.
5	Enclosure link-down port	Connects to the enclosure link-up port on the enclosure below with a CAT5 patch cable.
6	Enclosure link-up port and service port	Connects to the enclosure link-down port on the enclosure above with a CAT5 patch cable. On a stand-alone enclosure or the top enclosure in a series of linked enclosures, the top enclosure link-up port functions as a service port.

2. To connect to the management network, connect a standard CAT5 patch cable to the OA/iLO port of each installed Onboard Administrator with KVM module.

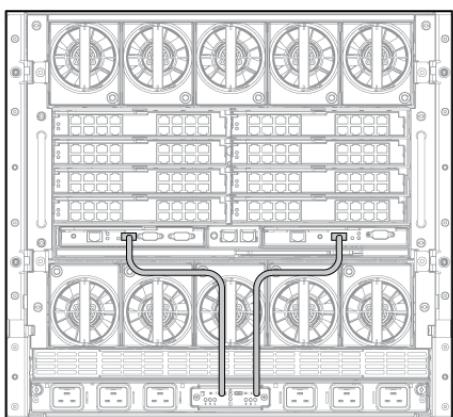
- If more than one enclosure is installed in the rack, use a CAT5 patch cable to connect the enclosure link-down port on the upper enclosure to the enclosure link-up port on the lower enclosure.



NOTE: The enclosure link ports are designed only to support c-Class enclosures in the same rack. The enclosure link-up port on the top enclosure is the service port, and the enclosure link-down port on the bottom linked enclosure is unused.

NOTE: The HP BladeSystem c-Class enclosure link ports are not compatible with the HP BladeSystem p-Class enclosure link ports.

- To utilize intelligent power discovery, connect the cables to an intelligent single-phase AC module, and then to the OAs.



For more information on intelligent power discovery, see the *HP Intelligent Power Distribution Unit User Guide* on the HP website (<http://www.hp.com/support/manuals>).

Mapping to interconnect ports

Several port types are referenced in the following tables.

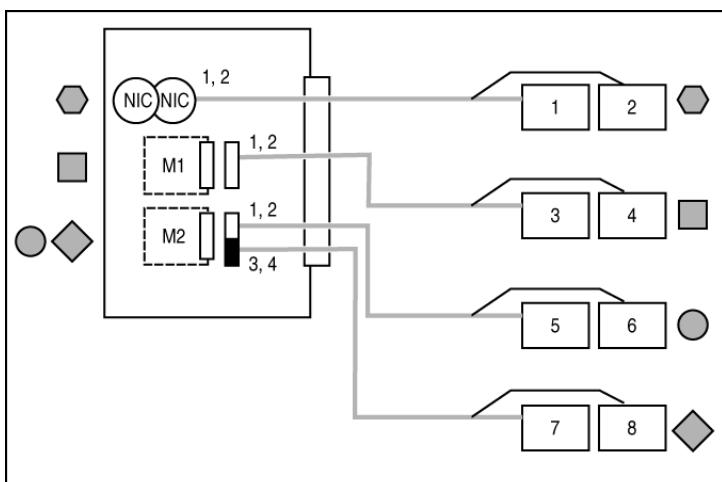
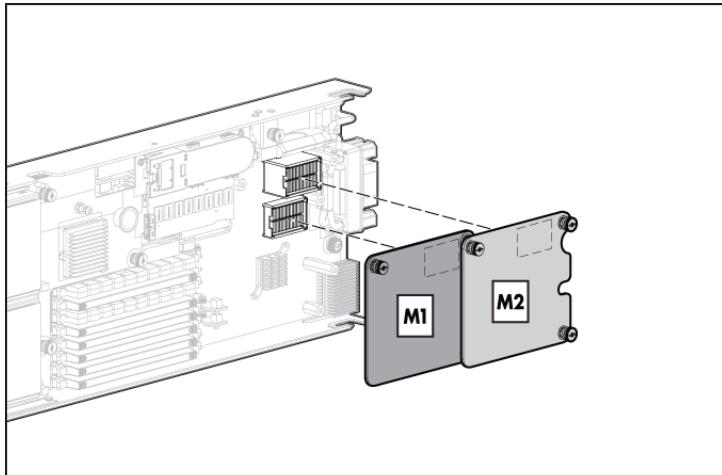
- Examples of 1x ports are 1-Gb Ethernet (1 GbE) switch modules and Fibre Channel interconnect modules.
- An example of a 2x port is a Serial Attached SCSI (SAS) interconnect module. (Reserved for future use.)
- Examples of 4x ports are 10-Gb Ethernet (10 GbE) interconnect modules.

- Gen8 servers have FlexibleLOM adapters that have the same port mapping as the previous generation server blade Embedded NICs.

NOTE: 1x and 2x port mezzanine cards interface with single-wide interconnect modules. 4x port mezzanine cards interface with double-wide interconnect modules.

The term "1x/2x" refers to the number of interconnect lanes per port provided by the controller. The more lanes provided per port, the higher the data transmission rate coming from that port.

Mapping half-height blades



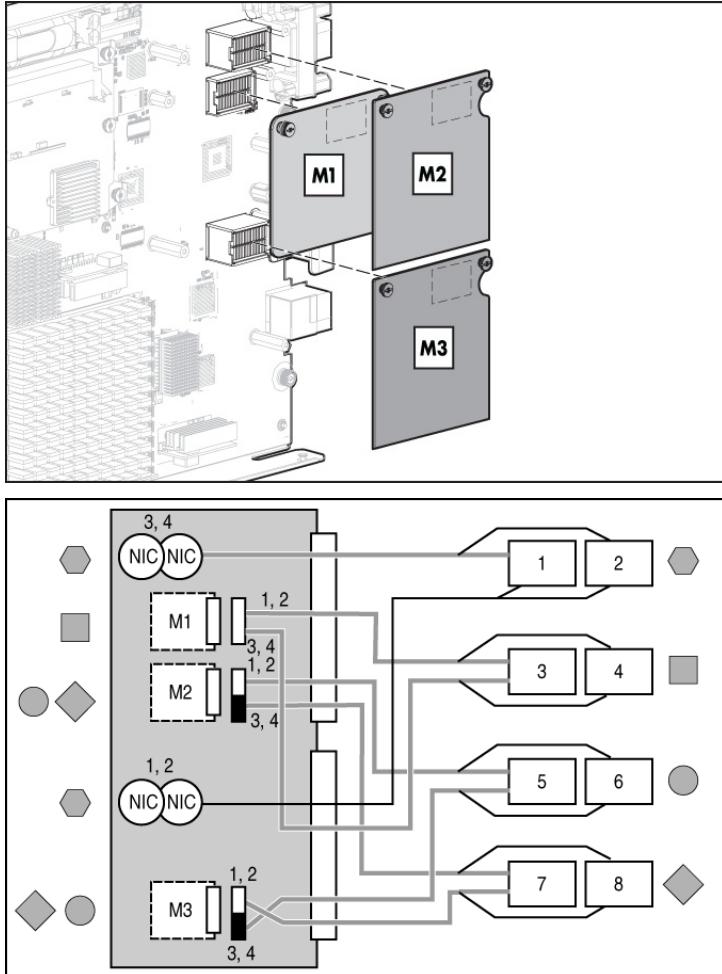
The following table lists the available configurations for half-height devices installed in device bay N (1–16).

Connection	Port number	Connects to interconnect bay/port	Comments
Embedded NIC	NIC 1 NIC 2	1/Port N 2/Port N	One or two single-wide Ethernet interconnect modules

Connection	Port number	Connects to interconnect bay/port	Comments
Mezzanine slot 1—1x or 2x cards	1x/2x port 1 1x/2x port 2	3/Port N 4/Port N	<ul style="list-style-type: none"> One single-wide interconnect module Four port cards will only connect the first two ports.
Mezzanine slot 1—4x cards	4x port 1	3/Port N	<ul style="list-style-type: none"> One double-wide interconnect module Only port 1 of a two port card will be connected.
Mezzanine slot 2—1x or 2x cards	1x/2x port 1 1x/2x port 2 1x/2x port 3 1x/2x port 4	5 / port N 6 / port N 7 / port N 8 / port N	One or two single-wide interconnect modules
Mezzanine slot 2—4x cards	4x port 1 4x port 2	5/Port N 7/Port N	One or two double-wide interconnect modules

* Connectivity to interconnect bays 7 and 8 is only available with four-port mezzanine cards or port 2 of 4x card in Mezzanine slot 2.

Mapping full-height blades



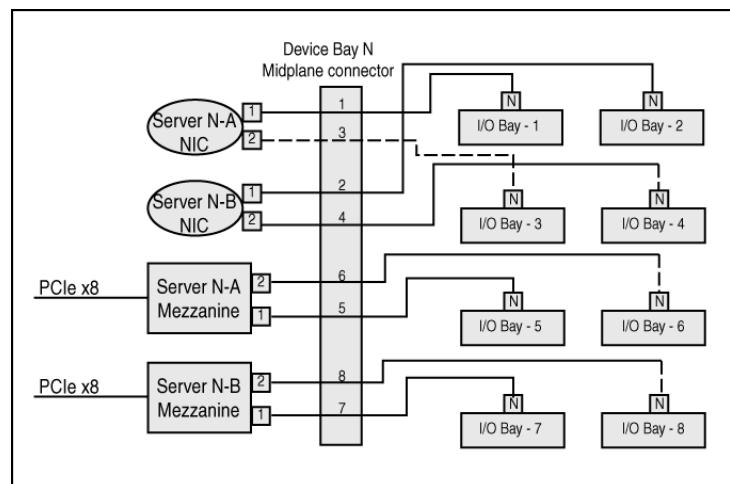
The following table lists the available configurations for full-height devices installed in device bay N (1–8).

Connection	Port number	Connects to interconnect bay/port	Comments
NIC	NIC 1 NIC 2 NIC 3 NIC 4	1/Port N+8 2/Port N+8 1/Port N 2/Port N	One or two single-wide Ethernet interconnect modules
Mezzanine slot 1—1x or 2x cards	1x/2x port 1 1x/2x port 2 1x/2x port 3 1x/2x port 4	3/Port N 4/Port N 3/Port N+8 4/Port N+8	One or two single-wide interconnect modules
Mezzanine slot 1—4x cards	4x port 1	3/Port N	<ul style="list-style-type: none"> One double-wide interconnect module Only port 1 of a two-port card can be connected

Connection	Port number	Connects to interconnect bay/port	Comments
Mezzanine slot 2–1x or 2x cards	1x/2x port 1 1x/2x port 2 1x/2x port 3 1x/2x port 4	5/Port N 6/Port N 7/Port N 8/Port N	Up to four single-wide interconnect modules
Mezzanine slot 2–4x cards	4x port 1 4x port 2	5/Port N 7/Port N	One or two double-wide interconnect modules
Mezzanine slot 3–1x or 2x cards	1x/2x port 1 1x/2x port 2 1x/2x port 3 1x/2x port 4	7/Port N+8 8/Port N+8 5/Port N+8 6/Port N+8	Up to four single-wide interconnect modules
Mezzanine slot 3–4x cards	4x port 1 4x port 2	5/Port N+8 7/Port N+8	One or two double-wide interconnect modules

* Connectivity to interconnect bays 7 and 8 is only available with four-port mezzanine cards or port 2 of 4x card in Mezzanine slot 2.

Mapping BL2x220c Blades



To support network connections for specific signals, install an interconnect module in the bay corresponding to the embedded NIC or mezzanine signals.

Interconnect device mapping for double dense server blades

The following table lists the available configurations for double dense server blades installed in device bay N (1-16).

Connection	Port number	Connects to interconnect bay/port
Server A Embedded NIC	NIC 1 (ENET:1) NIC 2 (ENET:2)	1/Port N 3/Port N
Server A Mezzanine	Port 1 Port 2	5/Port N 6/Port N

Connection	Port number	Connects to interconnect bay/port
Server B Embedded NIC	NIC 1 (ENET:1) NIC 2 (ENET:2)	2/Port N 4/Port N
Server B Mezzanine	Port 1 Port 2	7/Port N 8/Port N

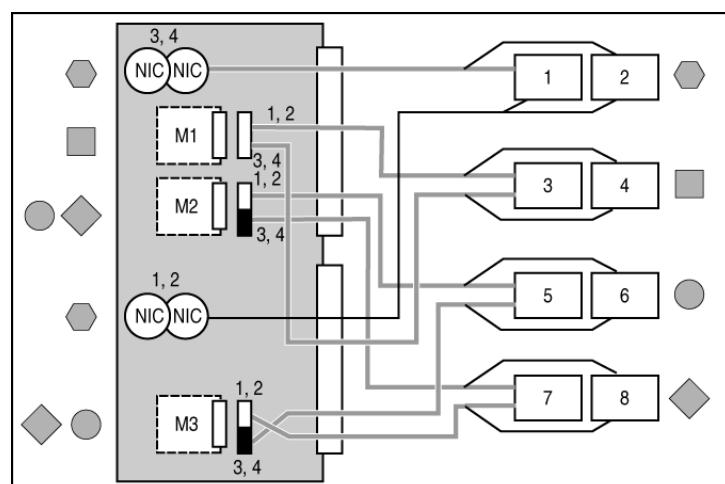
Interconnect device mapping for AMC Telco I/O expansion blades

The following table lists the available configurations for AMC Telco I/O expansion blades installed in device bay N (1-16).

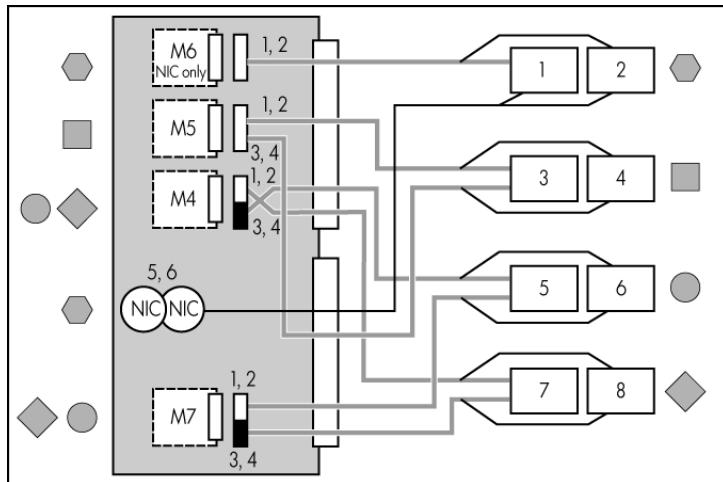
Connection	Port number	Connects to interconnect bay/port
AMC Embedded (1)	Port 1 Port 2 Port 3 Port 4	1/Port N 2/Port N 3/Port N 4/Port N
AMC Embedded (2)	Port 5 Port 6 Port 7 Port 8	5/Port N 6/Port N 7/Port N 8/Port N

Mapping the BL680c G7 Blade

- A side



- B side



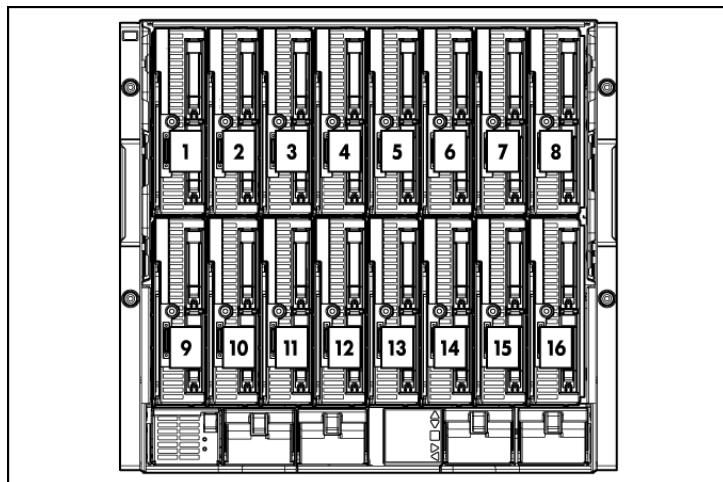
To support network connections for specific signals, install an interconnect module in the bay corresponding to the embedded NIC or mezzanine signals.

Bay-to-bay crosslinks

Four trace SerDes signals between adjacent bays are provided in the enclosure midplane to permit bay-to-bay communications. Interconnect modules can only connect horizontally.

Device bay crosslinks

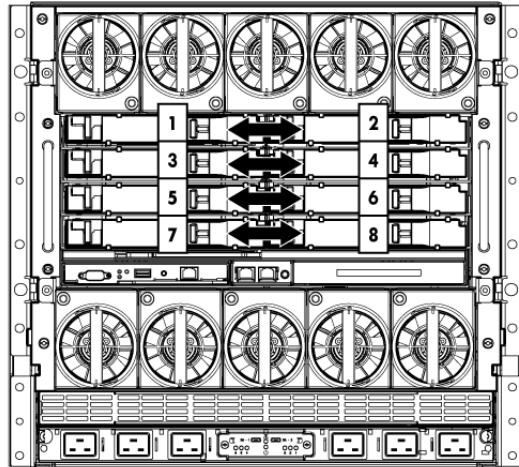
Device bay crosslinks are wired between adjacent horizontal device bay pairs.



For half-height blades, these signals connect a four-lane PCIe module to a partner blade such as a tape blade or a PCI expansion blade. For full-height blades, these signals are used to connect a PCIe module to a partner blade in the lower adjacent bay and require a PCIe pass-thru mezzanine card installed in mezzanine connector 3. The Onboard Administrator with KVM disables the device bay crosslinks when they cannot be used, such as when two server blades reside in adjacent device bays.

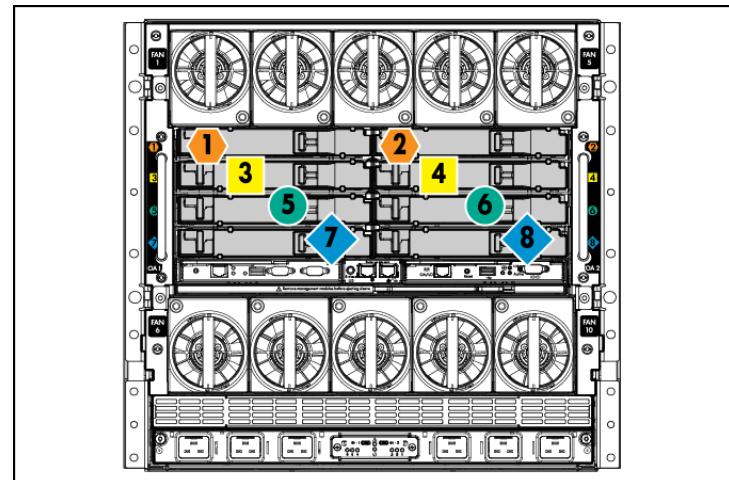
Interconnect bay crosslinks

Interconnect bay crosslinks are wired between adjacent interconnect bay pairs.



You can enable these signals to provide module-to-module connections, such as Ethernet crosslink ports between matching switches, or Virtual Connect modules as stacking links. Onboard Administrator with KVM disables the interconnect bay crosslinks when they cannot be used, such as when two different modules reside in adjacent horizontal interconnect bays.

Installing interconnect modules



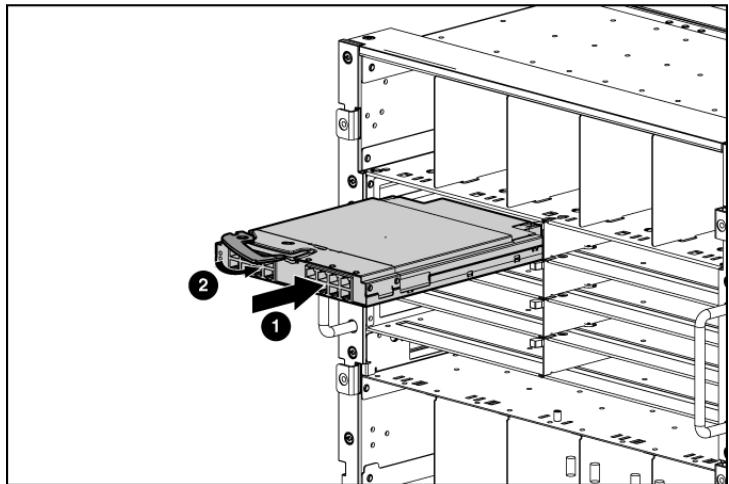
Server blade signal	Interconnect bay number	Interconnect bay label
NICs 1, 2, 3, and 4 (embedded)	1, 2	hexagon
Mezzanine 1	3, 4	yellow square
Mezzanine 2	5, 6 and then 7, 8	teal circle and blue diamond
Mezzanine 3	7, 8 and then 5, 6	blue diamond and teal circle

NOTE: For information on the location of LEDs and ports on individual interconnect modules, see the documentation that ships with the interconnect module.

1. Install the interconnect modules based on the number ordered and the number of fabrics in the configuration.

The enclosure ships with interconnect bay dividers installed. The interconnect bay dividers must be removed before installing

double-wide interconnect modules. To remove an interconnect bay divider, press the release tab, and pull the interconnect bay divider out of the enclosure.



2. Install interconnect blanks in any unused interconnect bays.
3. Connect each installed interconnect module to the external connections with the appropriate cable.

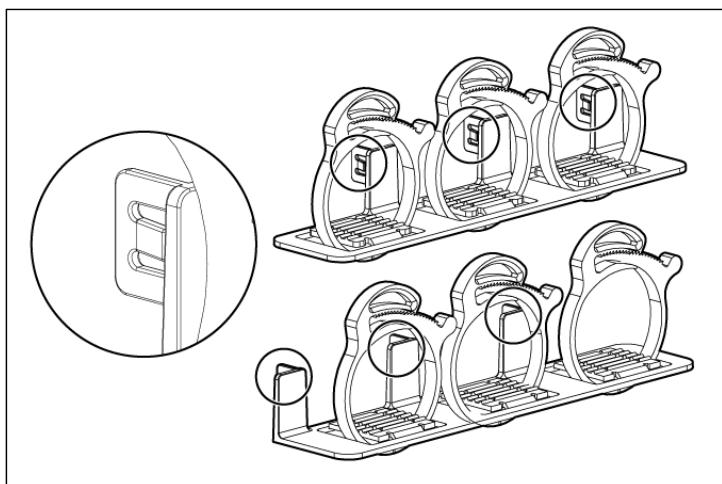
Powering up the enclosure

Single-phase power configuration

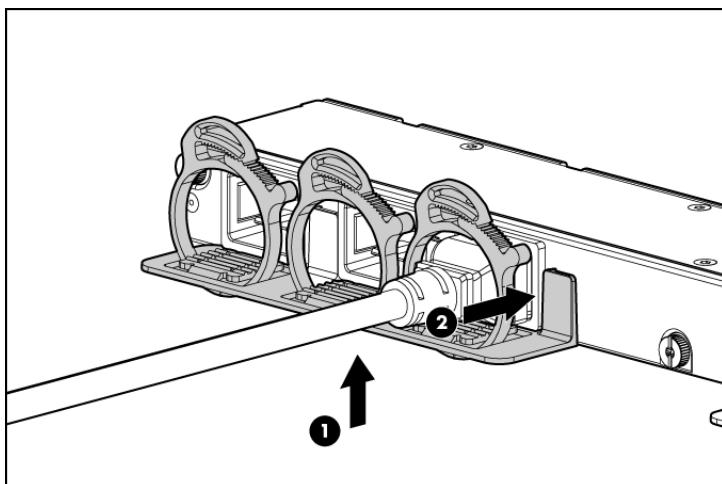
For a single phase power configuration:

1. Connect the AC power cables to the power connectors on the rear of the enclosure corresponding to the power supply that was populated on the front of the enclosure.
2. Be sure each power cable is securely attached to the power connectors.
3. Connect the AC power cables to the AC power source or to an installed power distribution unit (PDU).
4. Turn on the AC circuit breakers that power the power cables installed in the enclosure.
5. Locate the power retention bracket that came with the enclosure.
6. Verify that the power cord retention tabs are on the correct side.
 - o On the left side: To install the power cord retention bracket on the left side of the enclosure, ensure the power cord retention tabs are located to the right of the snap clamps.

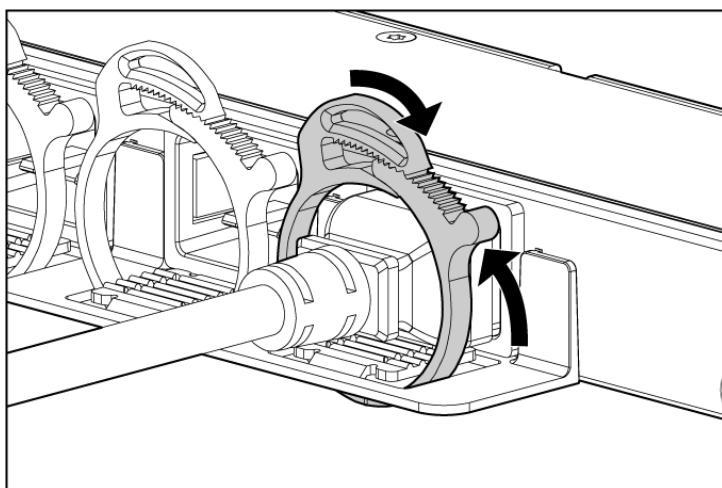
- o On the right side: To install the power cord retention bracket on the right side of the enclosure, ensure the power cord retention tabs are located on the left side of the snap clamps.



7. Place the power cord retention bracket under the power cords, and then align the power cords with the snap clamps.
8. Open the snap clamps, and then insert each power cord inside each clamp.
9. Slide the power cord retention bracket until the bracket touches the enclosure.
10. Insert the power cord retention tabs into the slots on the enclosure until they snap into place.



11. Slide each snap clamp over the end of each power cord overmold, and then squeeze each snap clamp closed.



Three-phase power configuration

For a three-phase power configuration, the AC power cables are already attached to the enclosure. To cable the enclosure using a three-phase AC configuration:

1. Connect the AC power cables to the AC power source.
2. Turn on the AC circuit breakers that power the power cables installed in the enclosure.

The installation is complete.

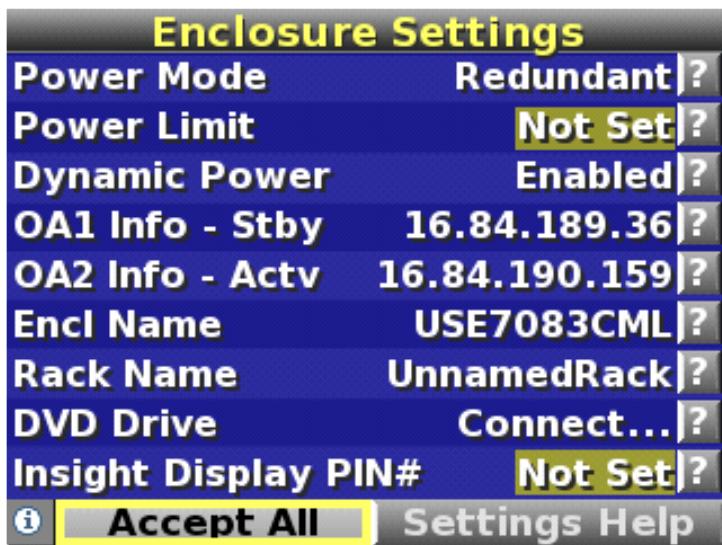
Setting up the HP BladeSystem Insight Display

To identify the enclosure, the rear enclosure UID light and the background of the Insight Display are illuminated blue when the enclosure is powered on initially. When the enclosure is powered up for the first time, the Insight Display launches an installation wizard to guide you through the configuration process. At the beginning of the installation, the wizard automatically powers on the enclosure UID. After the installation is complete, the wizard powers off the enclosure. After configuring the enclosure, the Insight Display verifies that there are no installation or configuration errors. If errors are present, the Insight Display guides you through the process of correcting the errors.

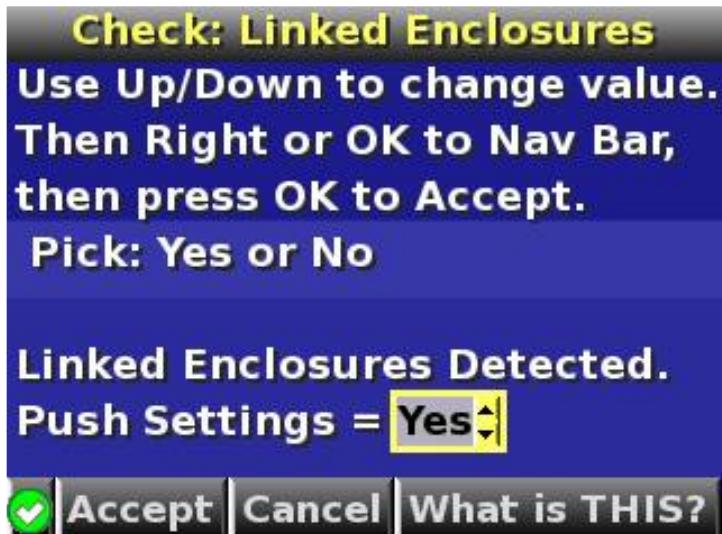
To set up an enclosure with network connectivity to the Onboard Administrator with KVM:

1. On the Enclosure Settings screen, confirm the default settings.
 - o Use the navigation arrows to navigate to a particular setting, and then press **OK**.
 - o Navigate to the ? box next to a setting, and then to get help, press **OK**.
2. Confirm the Power mode for the power supplies, which is typically AC Redundant.
3. If the facility must limit AC power to the enclosure below what the power supplies can draw, set the Power Limit.
4. To provide the highest power efficiency without affecting server performance, enable Dynamic Power Savings.
5. Record the OA1 and OA2 (if present) IP address. This information is needed when deploying the management software.
 - o If the OA1 or OA2 IP address is 0.0.0.0., set the address. Navigate to the address, and then press **OK**. Use the up and down arrows to select Static IP address. Use the up and down arrows on each field to set the IP, netmask, and gateway one octet at a time. Press **OK**, and then press **OK** again on Accept to confirm the new IP address settings.
 - o If neither IP address is 0.0.0.0., record the displayed address to use for remote login to the Onboard Administrator with KVM over the management network.
6. (Optional) Edit the Enclosure Name. The default value is the enclosure serial number.
7. (Optional) Edit the Rack Name. The default value is UnnamedRack.
8. Set the Insight Display PIN to prevent other users of the LCD from changing the settings.

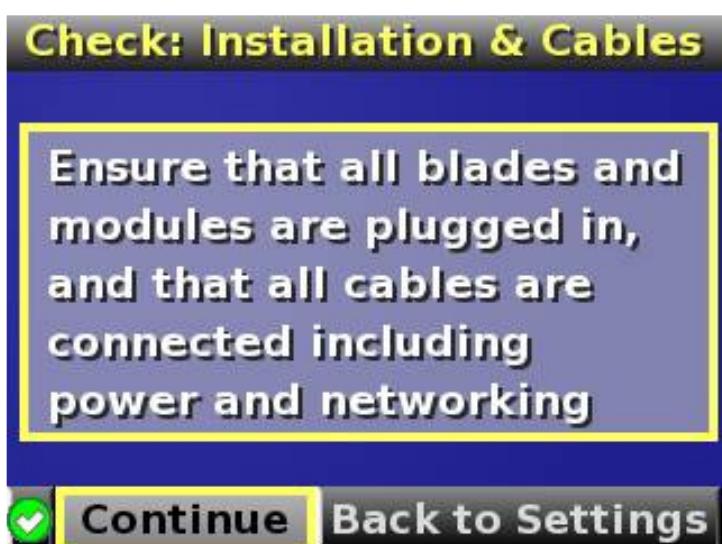
9. Select Accept All at the bottom of the Enclosure Settings, and then press **OK** to accept all the settings to continue. If you are setting up a single enclosure, proceed to step 11.



10. Select Accept, and then press **OK** to apply the Enclosure Settings (Redundancy Mode, Limit AC, Power Savings, Rack Name, and Insight Display PIN) to other linked enclosures.



11. Follow the instructions on the Check: Installation & Cables screen, and then select **Continue**.



- Follow the instructions on the Blades Powering Up screen, and then select **Main Menu**.



- Open a browser and connect to the active Onboard Administrator with KVM module using the Onboard Administrator with KVM IP address that was configured during the Insight Display installation wizard process.
- Enter the user name and password from the tag supplied with the Onboard Administrator with KVM module to access the remote Onboard Administrator with KVM web interface and complete the Onboard Administrator with KVM first time installation wizard.

To set up the enclosure without network connectivity to the Onboard Administrator with KVM, see the *Onboard Administrator User Guide*.

Installing the operating system for Gen8 servers

ProLiant Gen8 blades do not ship with provisioning media. However, ProLiant Gen8 blades are preloaded with the media to manage and install the system software and firmware.

To operate properly, the blade must have a supported operating system. For the latest information on operating system support, see the HP website (<http://www.hp.com/go/supportos>).

To install an operating system on the blade, use one of the following methods:

- Intelligent Provisioning—The iLO Management Engine is a new feature on ProLiant blades that contains Intelligent Provisioning for embedded deployment, updating, and provisioning capabilities. Intelligent Provisioning can configure the blade and install an operating system, eliminating the need for SmartStart CDs and Smart Update Firmware DVDs.

To install an operating system on the blade with Intelligent Provisioning (local or remote):

- Ensure network connectivity and power on the blade.
- Through a remote control session, during server POST, press the **F10**.
- Complete the initial Preferences and Registration portion of Intelligent Provisioning.
- At the **Home** screen, click the **Configure and Install** button.

- e. Follow the on-screen prompts to finish the installation. (To update the firmware and systems software, an Internet connection is required.)
- Remote deployment installation—Use Insight Control server deployment for an automated solution to remotely deploy an operating system.

For additional system software and firmware updates, download the HP Service Pack for ProLiant (SPP) from the HP website (<http://www.hp.com/go/spp/download>).

The Smart Update Firmware DVD ISO is also available at the download tab on the HP website (<http://www.hp.com/go/foundation>).

For information on using these installation methods, see the HP website (<http://www.hp.com/go/ilo>).

Installing the operating system for G7 servers

To operate properly, the server must have a supported operating system installed. For the latest information on supported operating systems, see the HP website (<http://www.hp.com/go/supportos>).

Methods to install an operating system on the server include:

- SmartStart assisted installation—Insert the SmartStart CD into the DVD-ROM drive and reboot the server.
- Manual installation—Insert the operating system CD into the DVD-ROM drive and reboot the server. You might have to obtain additional drivers and firmware from the SPP download site (<http://www.hp.com/go/spp/download>).

For more information, download the HP Service Pack for ProLiant (SPP) from the HP website (<http://www.hp.com/go/spp/download>).

Troubleshooting resources

The *HP BladeSystem c-Class Enclosure Troubleshooting Guide* provides procedures and solutions for troubleshooting HP BladeSystem c-Class enclosures. This guide explains how to use the Insight Display to troubleshoot enclosures, and it includes a flowchart to help you navigate the troubleshooting process. To view the guide, see the HP website (http://www.hp.com/support/BladeSystem_Enclosure_TSG_en).

Before contacting HP Technical Support, be sure to have an **Onboard Administrator Show All** report available. HP Technical Support must analyze the **Onboard Administrator Show All** report for configuration errors before proceeding. For instructions on how to create an **Onboard Administrator Show All** report, see the HP website (<http://h20000.www2.hp.com/bizsupport/TechSupport/Document.jsp?lang=en&cc=us&objectID=c02843807>).

For more information

Refer to the HP website (<http://www.hp.com/go/bladesystem/documentation>) for more detailed setup and configuration information as well as regulatory, safety, and environmental notices. This information can be found in the *HP BladeSystem c-Class Solution Overview* and the *HP BladeSystem c7000 Enclosure Setup and Installation Guide*.

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