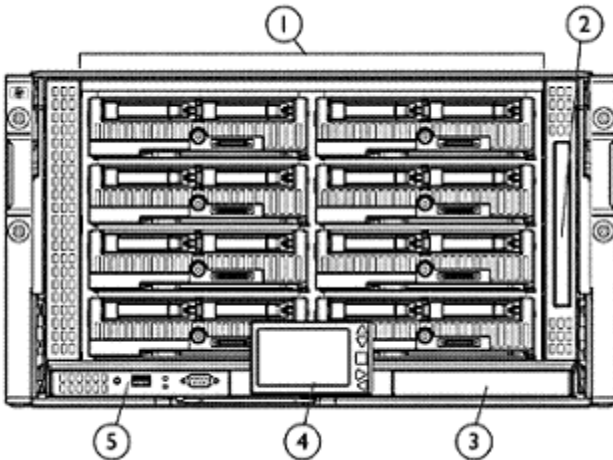


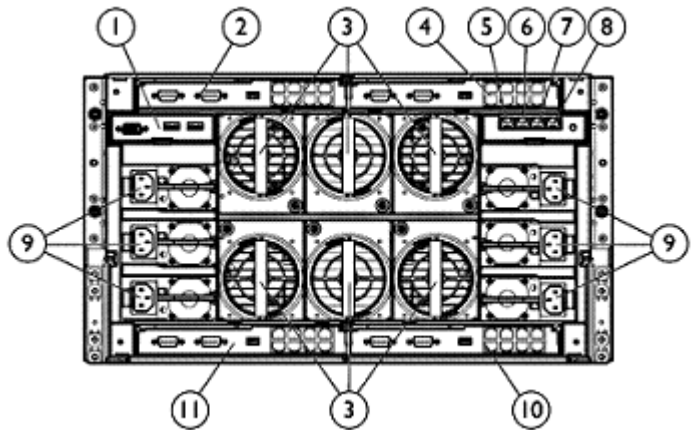
Overview

HPE BladeSystem c3000 Enclosure



HPE BladeSystem c3000 Enclosure - Front View

1. Device Bays 1 thru 8
2. Enclosure DVD Drive
3. Standby Onboard Administrator
4. Insight Display
5. Active Onboard Administrator



HPE BladeSystem c3000 Enclosure - Rear View

1. Local KVM interface
2. Interconnect Bay 1
3. Active Cool 100 Fans and Fan Bays
4. Interconnect Bay 2
5. Enclosure Up-link and Service Port
6. Enclosure Down-link
7. iLO/Onboard Administrator Port
8. iLO/Onboard Administrator Port 2
9. Power Supplies
10. Interconnect Bay 4
11. Interconnect Bay 3

Standard Features

HPE BladeSystem c-Class c3000 Enclosure

A HPE BladeSystem solutions start with an either a c7000 or c3000 enclosure. For the c3000 enclosure, key enclosure components include hot-plug power supplies, hot-plug HPE Active Cool 100 Fans, and an optional redundant BladeSystem Onboard Administrator module. Once the enclosure and its key components have been selected, the following components can be added: interconnect modules, HPE ProLiant and Integrity server blades, expansion blades, and optional HPE Insight Control for BladeSystem management software.

NOTE: HPE BladeSystem c3000 and c7000 Enclosures support G1 through Gen10 ProLiant and Integrity server blades, subject to support requirements of the Onboard Administrator. Certain HPE ProLiant server blades and options may require a specific version of the Onboard Administrator firmware. This firmware release may also require other subsystem firmware upgrades. For further information, please see the [HPE Service Pack for ProLiant \(SPP\) website](#) and the HPE Support Center document [“HPE ProLiant Server Blades - Compatibility with HPE BladeSystem c7000 and c3000 Enclosures and Firmware”](#).

A BladeSystem c3000 Enclosure holds up to 8 server blades and up to 4 expansion blades (not exceeding 8 total blades) plus redundant network and storage interconnects. It includes a shared, multi-terabit high-speed midplane for wire-once connectivity of server blades to network and shared storage. Power is delivered through a pooled power backplane that ensures the full capacity of the power supplies is available to all blades.

Each c3000 enclosure is built with the following functions:

- Up to 8 half-height server blades, 4 full-height server blades, and/or 4 expansion blades per enclosure (not exceeding 8 total blades).
NOTE: For information on mixing half-height server blades, full-height server blades, and expansion blades, please see the section titled "Server Blade, Expansion Blade, and Fan Population Guidelines" later in this document.
- Up to 2 redundant I/O interconnect fabrics (Ethernet, Fibre Channel, iSCSI, SAS, etc.) supported simultaneously within the enclosure.
- A single-phase power subsystem for flexibility in connecting to datacenter power, UPSs, or low-line (100VAC to 110VAC) wall outlets.
CAUTION: when connecting directly to wall outlets, customers should determine the maximum amperage of the wall outlet circuit to prevent power overload.
- Choice of AC power supplies.
- PARSEC enclosure design - Parallel, redundant and scalable cooling and airflow design.
- Up to six (6) hot-plug HPE Active Cool 100 Fans.
- Redundant hot-plug cooling, redundant hot-plug power supplies, redundant connections, redundant interconnect modules, and optional redundant BladeSystem Onboard Administrator management module.

An Onboard Administrator management module is built in to the enclosure with the following functions:

- Robust, multiple enclosure setup and control.
- Reports asset and inventory information for the devices in the enclosure.
- Reports thermal and power information, including real-time actual power usage per server and per enclosure.
- Front-mounted Insight Display for easy management at the deployment site.
- Integrated access to all server blade iLOs from a single cable.
- Provides integrated access to interconnect bay device management ports from the single Onboard Administrator cable.
- Single sign-on capability for all devices in the enclosure.
- Role-based security locally and/or with LDAP directory services.
- Provides a wizard-based initial setup process for easy configuration.
- An optional DVD drive for local software deployment, and HPE SmartStart deployment
- An optional local KVM interface for connection to KVM switches.

A BladeSystem c3000 enclosure provides the following benefits:

Standard Features

- With local and remote hardware management integrated across the solution, one full enclosure can be managed as easily as one server.
- Management and network interconnects extend scalability beyond a single enclosure, allowing resources to be pooled and shared across multiple enclosures.
- Accommodates multiple server and network designs in one enclosure.
- Lower costs per server in comparison to rack-mounted servers
- Lower power consumption in comparison to rack-mounted servers.
- Reduced and simplified cabling in comparison to rack-mounted servers.
- Investment protection supporting G1 through Gen10 server blades.

HPE ProLiant & Integrity Server Blades

Delivering best-in-class performance, choice and reliability on AMD Opteron™, Intel® Xeon® and Intel® Itanium® processors for Windows, Linux, Solaris, OpenVMS, or HP-UX based servers; the HPE portfolio of server blades supports a variety of application requirements for scale-out architectures. Hewlett Packard Enterprise offers one-, two-, four- and eight -processor server blades, with the widest range of performance, and form factors. For information please visit: <https://www.hpe.com/us/en/integrated-systems/bladeSystem.html>.

HPE D2200sb Storage Blade

Direct attached storage

The D2220sb Storage Blade delivers direct attached storage for c-Class Gen8 and greater server blades, with support for up to twelve hot plug small form factor (SFF) SAS or SATA Midline hard disk drives or SAS/SATA SSDs. The enclosure backplane provides a PCI Express connection to an adjacent c-Class server blade and enables high performance storage access without any additional cables. The D2220sb Storage Blade features an onboard Smart Array P420i controller with 2GB flash-backed write cache, for increased performance and data protection. Up to four D2220sb storage devices can be supported in a single BladeSystem c3000 Enclosure for up to 57.6 TB of capacity.

NOTE: The D2220sb requires a c3000 enclosure configuration with 6 fans

For more information, please visit:

<https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04111399>

HPE Ultrium Tape Blades

Tape blades are ideal for HPE BladeSystem c-Class customers who need a data protection solution but are not connected into a storage area network (SAN). They provide direct attach data protection for the adjacent server and network backup protection for all other data within the enclosure. The HPE tape blades are the industry's first bladed tape drives and are developed exclusively for the BladeSystem c-Class enclosures.

For more information, please visit:

<https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04154444>

HPE BladeSystem c-Class Interconnect Options

Hewlett Packard Enterprise offers one of the broadest selections of interconnect fabric options in the industry to provide network, SAN/network attached storage (NAS), and cluster connectivity. HPE BladeSystem interconnects provide:

- HPE Virtual Connect devices, designed to reduce networking costs and simplify network configuration and provisioning.
- Seamless integration of Ethernet, FC, iSCSI, and SAS fabrics: Standard-based switch options include Cisco, Brocade, and Hewlett Packard Enterprise products that integrate within your existing standards.
- Built-in redundancy: rear-mounting interconnect modules designed for redundant interconnections between server blades and switches.
- Cable reduction: Interconnect switches provide up to 32-to-1 network cable reductions per server blade enclosure

HPE BladeSystem c-Class Interconnect and Mezzanine Components:

<https://www.hpe.com/h20195/v2/getpdf.aspx/c04284204.pdf?ver=10>

Standard Features

Factory Express Portfolio for Servers and Storage

HPE Factory Express offers configuration, customization, integration and deployment services for Hewlett Packard Enterprise servers and storage products. Customers can choose how their factory solutions are built, tested, integrated, shipped and deployed.

Factory Express offers service packages for simple configuration, racking, installation, complex configuration and design services as well as individual factory services, such as image loading, asset tagging and custom packaging. Hewlett Packard Enterprise products supported through Factory Express include: a wide array of servers and storage: HPE Integrity, HPE ProLiant & HPE ProLiant & Integrity Server Blades, HPE BladeSystem, HPE 9000 servers as well as the MSAxxxx, VA7xxx, EVA, XP, rackable tape libraries and configurable network switches.

For more information on Factory Express services for your specific server model please contact your sales representative or go to: <http://www.hpe.com/info/factoryexpress>

HPE Simple Configurator

One Config Simple (OCS) is a guided self-service tool to help sales and non-technical people provide customers with initial configurations in 3 to 5 minutes. You may then send the configuration on for configuration help, or use in your existing ordering processes. If you require "custom" rack configuration or configuration for products not available in OCS, please contact the HPE Customer Business Center or an Authorized Partner for assistance. <https://h22174.www2.hpe.com/SimplifiedConfig/Welcome>

HPE Insight Management software

Insight Management Managing the growing number of servers can be complex and expensive for your organization. IT managers need to address changing business needs with tools that meet the challenges of managing today's complex Datacenters.

HPE Insight Management lowers the cost of running your HPE ProLiant servers by providing you with best-in-class management tools, including HPE Insight Control, HPE Virtual Connect Enterprise Manager (VCEM), and HPE Matrix Operating Environment. Insight Management increases your productivity and reduces your operating costs to get you higher value from your HPE ProLiant servers.

Electronic download of Insight Management Media
Insight Management software media is available for free download (not including license entitlement certificates) at this website: <http://www.hpe.com/info/servermanagement>

Software media available for download includes:

- HPE Insight Control
- HPE Insight Control for Microsoft® System Center
- HPE Insight Control for VMware vCenter Server
- HPE Virtual Connect Enterprise Manager (VCEM)
- HPE Matrix Operating Environment

Customers will receive an Insight Control or Matrix Operating Environment license entitlement certificate via physical shipment or email. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s).

One year of 24x7 Software Technical Support and Updates are included with your purchased licenses.

Hewlett Packard Enterprise provides a complete range of installation and support services to ensure the successful deployment and operations of your server infrastructure. For more information about support services and licensing options, see the following website: <http://www.hpe.com/info/servermanagement>

Standard Features

Insight Software Media Kit (DVDs)
Physical media (DVDs) are also available for purchase from Hewlett Packard Enterprise or from your authorized reseller (PN 436222-B21)

Service Pack for ProLiant (SPP) Customers should use the **HPE Service Pack for ProLiant** to update firmware, drivers, and related utilities: <https://www.hpe.com/servers/spp/>

HPE Integrated Lights-Out (iLO) HPE Integrated Lights-Out (iLO) simplifies server setup, health monitoring, power and thermal control, and lights-out remote administration of ProLiant ML, DL, and BL servers. HPE iLO functions without additional software and can be accessed from any location via a web browser. HPE iLO works hand-in-hand with HPE Systems Insight Manager, Insight Control and Insight Dynamics for ProLiant, helping customers unleash the value of the ProLiant platform and deliver the highest possible quality of IT service. For more information, visit: <http://www.hpe.com/info/ilo>

HPE Insight Control HPE Insight Control, a product option, delivers essential infrastructure management that can help save time and money by making it easy to deploy, migrate, monitor, remote control, and optimize your IT infrastructure through a single, simple management console. For more information, see <http://www.hpe.com/info/servermanagement>

HPE Insight Control includes one year of 24 x 7 HPE Software Technical Support and Update Service ensuring rapid access to Hewlett Packard Enterprise support staff and proactive delivery of software updates. For more information about this service, please visit: <http://www.hpe.com/info/servermanagement>

HPE Matrix Operating Environment The HPE Matrix Operating Environment (Matrix OE) for ProLiant and Integrity servers is an integrated command center that helps you instantly adjust to dynamic business demands. This advanced infrastructure management software lets you reduce the cost of common data center tasks by up to 40 percent while keeping pace with your changing business.

The HPE Matrix OE includes the automated provisioning, optimization, and recovery management capabilities for HPE CloudSystem Matrix, the ideal platform for private cloud and Infrastructure as a Service (IaaS).

For more information, see <http://www.hpe.com/info/matrixoe>.

HPE Power Advisor

The HPE Power Advisor is a tool provided by Hewlett Packard Enterprise to assist in the estimation of power consumption and proper selection of components including power supplies at a system, rack, and multi-rack level. A variety of additional features are also provided including a condensed bill of materials, a cost of ownership calculator, and a power report. The HPE Power Advisor allows for the mixing of rack, blade, and other products in a single environment.

Hewlett Packard Enterprise highly recommends using the HPE Power Advisor tool to ensure the number of power supply options you have selected can fully support your BladeSystem configuration and to review maximum system power ratings for facilities planning purposes.

HPE Power Advisor is available at: <http://www.hpe.com/info/hppoweradvisor>

Warranty

Warranty - This product is covered by a global limited warranty and supported by HPE Services and a worldwide network of Hewlett Packard Enterprise Authorized Channel Partners. Hardware diagnostic support and repair is available for three years from date of purchase. Support for software and initial setup is available

Standard Features

for 90 days from date of purchase. Additional support may be covered under the warranty or available for an additional fee. Enhancements to warranty services are available through HPE Pointnext operational services or customized service agreements.

- Enclosure: Three-year parts and labor, on-site limited global warranty. Certain restrictions and exclusions apply
- Enclosure options: Fans, Power Supplies, BladeSystem Onboard Administrator, 1 Year parts only or enclosure warranty
- HPE BladeSystem Interconnects: 1 Year parts and labor, on-site regardless of the warranty period for the system in which they are installed
- HPE Storage Fibre Channel switches have a maximum warranty period of one (1) year regardless of the warranty period for the system in which they are installed

Hard drives have either a one year or three year warranty; refer to specific hard drive QuickSpecs for details.

Service and Support

Service and Support

HPE Technology Services for Industry Standard Servers and BladeSystem

Capitalizing on HPE ProLiant server and HPE BladeSystem capabilities requires a service partner who understands your increasingly complex business technology environment. That's why it makes sense to team up with the people who know Hewlett Packard Enterprise infrastructure hardware and software best - the experienced professionals at HPE Services.

Protect your business beyond warranty with HPE Pointnext operational services

HPE Pointnext operational services offer complete care and support expertise with committed response choices designed to meet your IT and business needs.

HPE Foundation Care services offer scalable reactive support-packages for Hewlett Packard Enterprise servers and software. You can choose the type and level of service that is most suitable for your IT and business needs. HPE Proactive Care delivers high levels of system availability through proactive service management and advanced technical response. HPE Datacenter Care provides highly flexible environmental support to address unique customer business needs.

Choose recommended services for your c3000 BladeSystem enclosure or contact your Hewlett Packard Enterprise sales representative or authorized HPE ServiceOne partner for additional HPE Pointnext operational services information

Recommended HPE Pointnext operational services for your HPE product

Optimized Care

3-Year HPE 6 hour Call to Repair Response, Proactive Care

Combined reactive and proactive support for hardware and software helping optimize your systems and delivering high levels of availability through proactive service management and advanced technical response. Hardware problem resolution to return the hardware in operating condition within 6 hours of the initial service request. A Technical Account Manager, as your single point of contact, will own your call or issue end to end until resolved.

HPE Installation and Startup Service for HPE BladeSystem c-Class Infrastructure for c3000 enclosure

Provides for hardware installation (c-Class ProLiant and Integrity server blades, storage blades, Ethernet Interconnects and Virtual Connect) and software installation and startup of a BladeSystem c3000 Infrastructure in a single enclosure including deployment of OS on all blades or deployment of OS (two blades) and HPE Insight Control, plus Server Deployment (formerly RDP).

<https://www.hpe.com/h20195/v2/getpdf.aspx/4aa0-5964enw.pdf>

HPE Installation and Startup Service for HPE BladeSystem c-Class Enhanced Network

Provides for the configuration and testing of BladeSystem Ethernet interconnect switches and Virtual Connect to facilitate proper implementation of network protocols and access to advanced features.

<https://www.hpe.com/h20195/v2/getpdf.aspx/4aa0-5969enw.pdf>

Standard Care

3-Year HPE 24x7 4 hour response, Proactive Care Service

This service gives you combined reactive and proactive support including rapid access to our Advanced Solution Center to manage and prevent problems and a Technical Support Specialist with a broad level of technical knowledge that will engage with additional technical expertise as needed from the Hewlett Packard Enterprise vast global resources.

HPE Installation and Startup Service for HPE BladeSystem c-Class Infrastructure for c3000 enclosure

Provides for hardware installation (c-Class ProLiant and Integrity server blades, storage blades, Ethernet Interconnects and Virtual Connect) and software installation and startup of a BladeSystem c3000 Infrastructure in a single enclosure including deployment of OS on all blades or deployment of OS on two blades and HPE Insight Control, plus Server Deployment (formerly RDP).

<https://www.hpe.com/h20195/v2/getpdf.aspx/4aa0-5964enw.pdf>

Service and Support

HPE Installation and Startup Service for HPE BladeSystem c-Class Enhanced Network

Hewlett Packard Enterprise provides for the configuration and testing of BladeSystem Ethernet interconnect switches to facilitate proper implementation of network protocols and access to advanced features.

<https://www.hpe.com/h20195/v2/getpdf.aspx/4aa0-5964enw.pdf>

Related Services **HPE Proactive Care Personalized Support - Environmental Option**

The Personalized Support option provides an assigned Account Support Manager who can bring best practices from across the industry plus extra technical skills to your IT team. This option is only available as an add-on to HPE Proactive Care Support.

HPE Proactive Select Service

Provides a flexible way to purchase HPE best-in-class consultancy and technical services. You can buy Proactive Select Service Credits when you purchase your hardware and then use the credits over the next 12 months. <https://www.hpe.com/h20195/V2/GetPDF.aspx/4AA2-3842ENW.pdf>

Additional HPE Packaged Support Services (formerly Care Pack) can be found at:

<https://www.hpe.com/us/en/services/it-support.html>

Insight Online / Insight Remote Support

HPE Insight Remote Support provides 24 X 7 remote monitoring, proactive notifications, and problem resolution. This comes at no additional cost with your HPE solution. Learn more about **Insight Remote Support** (<https://www.hpe.com/info/insightremotesupport/docs>) and Insight Online (<https://www.hpe.com/h20195/v2/getpdf.aspx/c04123234.pdf>)

NOTE: Insight Remote Support is a prerequisite for Proactive Care. All blades within a single HPE BladeSystem enclosure must be at the same service level.

HPE Support Center

Personalized online support portal with access to information, tools and experts to support Hewlett Packard Enterprise business products. Submit support cases online, chat with HPE experts, access support resources or collaborate with peers. Learn more <https://www.hpe.com/us/en/support.html>

The HPE Support Center Mobile App allows you to resolve issues yourself or quickly connect to an agent for live support. Now, you can get access to personalized IT support anywhere, anytime.

HPE Insight Remote Support and HPE Support Center are available at no additional cost with a Hewlett Packard Enterprise warranty, HPE Pointnext operational or Hewlett Packard Enterprise contractual support agreement.

NOTE: HPE Support Center Mobile App is subject to local availability.

Parts and Materials

Hewlett Packard Enterprise will provide HPE-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction.

For more information

To learn more on HPE ProLiant servers and HPE BladeSystem servers, please contact your Hewlett Packard Enterprise sales representative or Hewlett Packard Enterprise Authorized ServiceOne partner. Or visit: <https://www.hpe.com/us/en/integrated-systems/bladeSystem.html>

Configuration Information Factory Integrated Models

HPE Recommended Options have the best performance, value and availability.

Recommended Options have been selected by Hewlett Packard Enterprise experts to provide the right technology for a range of workloads and market segments. Fully integrated into the ProLiant management and security experience, Recommended Options provide the best fit with timely availability. **View the list for your region.**

Extended Options provide an extended catalog of products tailored for customers in specific markets or with specific workloads, requiring the utmost in performance or value. Fully integrated into the ProLiant management and security experience, Extended Options represent great value and performance but typically have a longer lead-time.

NOTE: This section lists some of the steps required to configure a Factory Integrated Model. To ensure only valid configurations are ordered, Hewlett Packard Enterprise recommends contacting your local sales representative for information on Factory Integrated Model product offerings and requirements.

For a configuration of the HPE BladeSystem, please do the following:

Step 1: Select desired model, configuration, and quantity of HPE ProLiant server and expansion blades per enclosure (required)

NOTE: Each HPE BladeSystem c-Class Server Blade Enclosure holds up to 8 half-height server blades, 4 full-height server blades, and/or 4 expansion blades per enclosure (not exceeding 8 total blades).

NOTE: HPE BladeSystem c3000 and c7000 Enclosures support G1 through Gen10 ProLiant and Integrity server blades, subject to support requirements of the Onboard Administrator. Certain HPE ProLiant server blades and options may require a specific version of the Onboard Administrator firmware. This firmware release may also require other subsystem firmware upgrades. For further information, please see the **HPE Service Pack for ProLiant (SPP) website** and the HPE Support Center document **"HPE ProLiant Server Blades - Compatibility with HPE BladeSystem c7000 and c3000 Enclosures and Firmware"**.

NOTE: For server and expansion blade (storage, tape, and PCI Expansion) information, please visit: <https://www.hpe.com/us/en/integrated-systems/bladefsystem.html>

Step 2: Determine the HPE BladeSystem c3000 Enclosure(s) and choose required options (One of the following from each list unless otherwise noted)

Select the base server blade enclosure configuration

HPE BladeSystem c3000 c-Class Server Blade Enclosures	HPE BladeSystem c3000 c-Class Server Blade Enclosures - Recommended
	NOTE: The enclosures listed below include 6 HPE Active Cool 100 Fans, a DVD drive, rack rails, and a single DDR2 Onboard Administrator module.
	NOTE: The power supply kits, power cables, interconnects, etc. are added per the steps below.
	NOTE: The enclosures listed below include the required blanking panels (device bay, interconnect module, fan, power, and redundant OA module blanking panels) as required per the ordered configuration. If the configuration is modified at a later date, additional blanking panels (ordered separately) may be required.
	NOTE: All c-Class enclosures support HPE ProLiant, Integrity and blades in either mixed or homogenous configurations, subject to support requirements of the Onboard Administrator. The AH257C enclosure is suggested for configurations primarily used with Integrity blades.
	HPE BLc3000 Platinum Configure-to-order Enclosure with 6 Fans ROHS Trial Insight Control License (Recommended)696910-B21
	HPE Integrity BLc3000 CTO Enclosure (Recommended)AH257C

Configuration Information Factory Integrated Models

Select the type and quantity of power supply kits

HPE c3000 Enclosure Power Supplies	HPE c3000 Enclosure Power Supplies - Recommended NOTE: Each enclosure must include only one type of power supply. Mixing of power supplies is not supported, except during hot swaps to different level or higher efficient power supplies. The Onboard Administrator will exhibit a mismatch error due to mixed power supplies until all power supplies are matched. NOTE: The HPE AC Common Slot Platinum Plus Power Supply PN 656364-B21 meets the 80 PLUS Platinum power 94% efficiency requirement. The 80 PLUS program is a unique forum that unites electric utilities, the computer industry, and consumers in an effort to bring energy efficient technology solutions to the marketplace. 80 PLUS independently tests power supply efficiency and publically posts the results on 80Plus.org. NOTE: HPE highly recommends using the HPE Power Advisor tool to ensure the number of power supply options you have selected can fully support your BladeSystem configuration and to review maximum system power ratings for facilities planning purposes. HPE Power Advisor is available at: http://www.hpe.com/info/hppoweradvisor . NOTE: For a full enclosure, you can either order 4 or more power supplies to support an N+1 redundant configuration or 6 power supplies to support an N+N redundant configuration. HPE 1200W Common Slot Platinum Plus Hot Plug Power Supply Kit (Recommended) 656364-B21 NOTE: Platinum power supplies are required to enable power discovery services. NOTE: Includes a 6ft C13 to C14 PDU power cord.
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Step 3: Select optional enclosure options

HPE Redundant Onboard Administrator	HPE Redundant Onboard Administrator - Recommended HPE BLc3000 Dual DDR2 Onboard Administrator (Recommended) 488100-B21 NOTE: Certain HPE ProLiant server blades and options require the latest version of the Onboard Administrator firmware. This firmware release may also require other subsystem firmware upgrades. For information on the latest firmware versions, please see the Blades Firmware Maintenance website at: https://www.hpe.com/us/en/product-catalog/servers/bladeSystem-enclosures/pip.models.hpe-onboard-administrator.3188465.html
HPE Optional Power Cords	HPE Optional Power Cords - Extended HPE C20 - C13 WW 250V 15Amp 2.0m Jumper Cord (Extended) AF590A NOTE: For use with PDUs accepting C20 power cords. NOTE: Order 1 for each power supply. HPE C13-NEMA 6-15P 10A/250V 3.6m Black Power Cord (Extended) A0N33A

Step 4: Select one to four interconnects

The following is a list of various HPE BladeSystem c-Class interconnect modules (Virtual Connect, Ethernet, Fibre Channel, and SAS interconnects). A pair of interconnects must be ordered if redundancy is required. For detailed interconnect options consult the specific interconnect QuickSpecs: <https://www.hpe.com/h20195/v2/getpdf.aspx/c04284204.pdf?ver=10>

NOTE: Options to specific c-Class interconnects are not included in the list below. Consult the individual interconnect QuickSpecs to obtain part numbers for interconnect options such as cables, SFPs, etc.

NOTE: Interconnect Bay 1 must contain one of the Network Interconnects.

NOTE: The HPE BladeSystem c-Class interconnects ship as single units unless otherwise noted. Interconnects must be ordered in quantities of two for redundancy support.

HPE BladeSystem c-Class Network Interconnects	HPE BladeSystem c-Class Network Interconnects - Recommended HPE Virtual Connect Flex-10/10D Module for c-Class BladeSystem (Recommended) 638526-B21 HPE 10GbE Ethernet Pass-Thru Module for c-Class BladeSystem (Recommended) 538113-B21
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Configuration Information Factory Integrated Models

	HPE 10GbE Ethernet Pass-Thru TAA-compliant Module II for c-Class BladeSystem (Recommended)	854194-B22
	HPE Cisco B22HP Fabric Extender for BladeSystem c-Class (Recommended)	641146-B21
	HPE Cisco B22HP Fabric Extender with 16 FET for BladeSystem c-Class (Recommended)	657787-B21
	HPE BladeSystem c-Class Network Interconnects - Extended	
	HPE 6125G/XG Ethernet Blade Switch (Extended)	658250-B21
	HPE 1GB Ethernet Pass-Thru Module for c-Class BladeSystem (Extended)	406740-B21
	NOTE: Includes 16 Cisco Fabric Extender Transceivers. These transceivers can be used to connect the Fabric Extender with a parent Nexus 5000 over optical cable up to 100 meters using OM3 grade fiber.	
HPE SAS Switch	HPE 6Gb SAS Switch Single Pack for HPE BladeSystem c-Class	BK763A
	HPE 6Gb SAS Switch Dual Pack for HPE BladeSystem c-Class	BK764A
	NOTE: Please see the QuickSpecs for Technical Specifications and additional information at: https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04123176 (Worldwide)	
HPE BladeSystem c-Class FC SAN Interconnects	HPE BladeSystem c-Class FC SAN Interconnects - Recommended	
	HPE 4GB Fibre Channel Pass-thru Module for c-Class BladeSystem (Recommended)	403626-B21
	HPE BladeSystem c-Class FC SAN Interconnects - Extended	
	HPE Virtual Connect 8Gb 24-port Fibre Channel Module for c-Class BladeSystem (Extended)	466482-B21
	Brocade 8/12c SAN Switch for BladeSystem c-Class	AJ820C
	Brocade 8/24c SAN Switch for BladeSystem c-Class	AJ821C
	Brocade 8/24c Power Pack+ SAN Switch for BladeSystem c-Class	AJ822C

Step 5: Select rack power distribution for installing the enclosure into a rack.

NOTE: A pair of HPE Power Distribution Units (PDU) must be ordered for AC feed redundancy. If AC redundancy is not required, a single PDU or UPS may be acceptable.

NOTE: Select HPE PDUs and UPSs are listed later in this document. For additional HPE PDUs and UPSs, please see <http://www.hpe.com/info/rackandpower>

Step 6: Select wall outlet power cords (For connection to standard wall outlets)

NOTE: Select one wall outlet power cord for each power supply when plugging the power supplies into a wall outlet.

NOTE: Wall Outlet power cords should only be used with low-line (100VAC to 110VAC) power sources. If high-line power outlets are required, safety regulations require the use of a PDU or a UPS between the c3000 enclosures power supplies and wall outlets.

NOTE: A standard 6ft PDU power cord (C13 to C14) is included with each AC power supply, so these wall outlet power cords are not required if you plan to plug the power supplies into a PDU or UPS.

NOTE: Order the appropriate power cord for your countries standard electrical outlets.

NOTE: For additional power cable information, please visit: <http://www.hpe.com/info/rackandpower>

HPE Power Cords	HPE Power Cords - Extended	
	HPE C13 - Nema 5-15P US/CA 110V 10Amp 1.83m Power Cord (Extended)	AF556A
	NOTE: HPE Power cord (6 ft) 1.83 meter 10A C-13-UL domestic power cord, for grounded USA 110V wall outlets.	
	HPE C13 - JIS C8303 JP 100V 12Amp 2.0m Power Cord (Extended)	AF572A
	NOTE: HPE Power cord 2 meter C13 Japan low-line power cord, for Japanese 100V wall outlets.	

Configuration Information Factory Integrated Models

HPE C20 - C13 WW 250V 15Amp 2.0m Jumper Cord (Extended)
NOTE: For use with PDUs accepting C20 power cords.

AF590A

Related Options

HPE Recommended Options have the best performance, value and availability.

Recommended Options have been selected by Hewlett Packard Enterprise experts to provide the right technology for a range of workloads and market segments. Fully integrated into the ProLiant management and security experience, Recommended Options provide the best fit with timely availability. [View the list for your region.](#)

Extended Options provide an extended catalog of products tailored for customers in specific markets or with specific workloads, requiring the utmost in performance or value. Fully integrated into the ProLiant management and security experience, Extended Options represent great value and performance but typically have a longer lead-time.

HPE c3000 Enclosure Options	HPE c3000 Enclosure Options - Recommended HPE c-Class BladeSystem Miscellaneous Blanks Option Kit (Recommended) 412148-B21 NOTE: Contains 1 each of c3000/c7000 Active Cool Fan blank, c3000/c7000 interconnect module blank, c7000 Onboard Administrator blank, c3000 local KVM blank, c3000 power supply blank, c7000 power supply blank, c3000 DVD blank, and a c3000 mini-divider. NOTE: This kit should only be ordered to replace lost or damaged blanks. HPE c-Class BladeSystem Bay Blank with Coupler Option (Recommended) 412150-B21 NOTE: This option contains one half-height device blank and a coupler that can be used for the c3000 and c7000 enclosures. NOTE: Order quantity of one 412150-B21 for filling a half-height bay; the coupler is not used. NOTE: Order quantity of two 412150-B21 for filling a full-height bay. One coupler is installed between the two half-height blanks to be connected together to create a full-height blank. NOTE: This kit should only be ordered to replace lost or damaged blanks.
HPE Onboard Administrator	HPE Onboard Administrator - Recommended HPE BLc3000 Dual DDR2 Onboard Administrator (Recommended) 488100-B21 NOTE: Second Onboard Administrator Module for the DDR2 OA module. NOTE: Support for second Order Administrator Module for c3000 Enclosure. NOTE: This module fits into an HPE c3000 DDR2 Onboard Administrator.
HPE c-Class Power Supply	HPE c-Class Power Supply - Recommended NOTE: Each enclosure must include only one type of power supply. Mixing of power supplies is not supported, except during hot swaps to different level or higher efficient power supplies. The Onboard Administrator will exhibit a mismatch error due to mixed power supplies until all power supplies are matched. NOTE: The HPE AC Common Slot Platinum Plus Power Supply PN 656364-B21 meets the 80 PLUS Platinum power 94% efficiency requirement. The 80 PLUS program is a unique forum that unites electric utilities, the computer industry, and consumers in an effort to bring energy efficient technology solutions to the marketplace. 80 PLUS independently tests power supply efficiency and publically posts the results on 80Plus.org. NOTE: HPE highly recommends using the HPE Power Advisor tool to ensure the number of power supply options you have selected can fully support your BladeSystem configuration and to review maximum system power ratings for facilities planning purposes. HPE Power Advisor is available at: http://www.hpe.com/info/hppoweradvisor . NOTE: For a full enclosure, you can either order 4 or more power supplies to support an N+1 redundant configuration or 6 power supplies to support an N+N redundant configuration.

Related Options

	HPE 1200W Common Slot Platinum Plus Hot Plug Power Supply Kit (Recommended)	656364-B21
	NOTE: Platinum power supplies are required to enable power discovery services	
	NOTE: Includes a 6ft C13 to C14 PDU power cord.	
HPE BladeSystem c-Class Network Interconnects	HPE BladeSystem c-Class Network Interconnects - Extended	
	NOTE: For detailed interconnect options, consult the specific interconnect QuickSpecs: https://www.hpe.com/h20195/v2/getpdf.aspx/c04284204.pdf?ver=10	
	NOTE: Options to specific c-Class interconnects are NOT included in the list below. Consult the individual interconnect QuickSpecs to obtain part numbers for interconnect options such as cables, SFPs, etc.	
	NOTE: Interconnect Bay 1 must contain one of the Ethernet capable interconnect modules.	
	NOTE: The HPE BladeSystem c-Class interconnects ship as single units unless otherwise noted. Interconnects must be ordered in quantities of two for redundancy support.	
	HPE 6125G/XG Ethernet Blade Switch (Extended)	658250-B21
	HPE 1GB Ethernet Pass-Thru Module for c-Class BladeSystem (Extended)	406740-B21
	NOTE: The Ethernet Pass-Thru Module is shipped as a single unit and should be ordered in quantities of two.	
HPE BladeSystem c-Class FC SAN Interconnects	NOTE: For detailed interconnect options, consult the specific interconnect QuickSpecs: https://www.hpe.com/h20195/v2/getpdf.aspx/c04284204.pdf?ver=10	
	NOTE: Options to specific c-Class interconnects are NOT included in the list below. Consult the individual interconnect QuickSpecs to obtain part numbers for interconnect options such as cables, SFPs, etc.	
	NOTE: Interconnect Bay 1 must contain one of the Ethernet capable interconnect modules.	
	NOTE: The HPE BladeSystem c-Class interconnects ship as single units unless otherwise noted. Interconnects must be ordered in quantities of two for redundancy support.	
	HPE BladeSystem c-Class FC SAN Interconnects - Recommended	
	HPE 4GB Fibre Channel Pass-thru Module for c-Class BladeSystem (Recommended)	403626-B21
	HPE BladeSystem c-Class FC SAN Interconnects - Extended	
	HPE Virtual Connect 8Gb 24-port Fibre Channel Module for c-Class BladeSystem (Extended)	466482-B21
	Brocade 8/12c SAN Switch for BladeSystem c-Class	AJ820C
	Brocade 8/24c SAN Switch for BladeSystem c-Class	AJ821C
	Brocade 8/24c Power Pack+ SAN Switch for BladeSystem c-Class	AJ822C
	Brocade 8/16Gb Embedded FC Switch 12-port Upgrade LTU	T5517A
HPE iLO Advanced for BladeSystem License	HPE iLO Advanced for BladeSystem 8-server License with 1yr Support on iLO Licensed Features	512489-B21
HPE Virtual Connect Enterprise Manager	HPE Virtual Connect Enterprise Manager including 1yr 24x7 Support Single c3000 Enclosure LTU	459867-B21
	NOTE: This license allows 1 BL-c3000 enclosure to be managed with VCEM. Customer will receive a printed license entitlement certificate via physical shipment. The license entitlement certificate must be redeemed online or via fax to obtain the license activation key(s). Includes one year of 24 x 7 HPE Software Technical Support and Update Service.	

Related Options

NOTE: For additional License Kits, please visit: <https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04154443> (Worldwide)

HPE c-Class Storage Blades	HPE c-Class Storage Blades - Recommended HPE 10GbE Ethernet Pass-Thru Module II for c-Class BladeSystem (Recommended) 854194-B21 HPE D2220sb Build-to-order Storage Blade QW917A NOTE: Includes 3yr NBD Parts-Only Warranty Service HPE D2220sb Configure-to-order Storage Blade QW918A NOTE: Includes 3yr NBD Parts-Only Warranty Service NOTE: The D2220sb requires a c7000 Enclosure configuration with 10 fans. NOTE: Please see the HPE D2220sb Storage Blade QuickSpecs for technical specifications and additional information at: https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04111399
HPE Expansion Blade	HPE Expansion Blade - Recommended HPE BLc PCI Expansion Blade (Extended) 448018-B21 NOTE: Please see the QuickSpecs for Technical Specifications and additional information at: https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04123380 (Worldwide)
HPE Intelligent Power Distribution Units (iPDU)	NOTE: A pair of PDUs must be ordered for AC feed redundancy. NOTE: Additional HPE Power Distribution Units are available than those listed below. For a complete list of all HPE PDUs and additional information please visit: https://www.hpe.com/us/en/integrated-systems/rack-power-cooling.html iPDU Core Units - Recommended HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU (Recommended) AF520A HPE Intelligent Modular 7.3kVA/60309 3-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU (Recommended) AF525A iPDU Core Units - Recommended HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU (Extended) AF522A HPE Intelligent Modular 3Ph 11kVA/60309 5-wire 16A/230V Outlets (6) C19/Horizontal INTL PDU (Extended) AF526A iPDU Extension Bars - Recommended HPE 5xC13 Intelligent PDU Extension Bar G2 Kit (Recommended) AF547A HPE 5xC13 Outlets Power and UID LEDs Pair Standard Extension Bar (Recommended) AF528A NOTE: Please see the QuickSpecs for Technical Specifications and additional information: https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04123329 (Worldwide)
HPE Uninterruptible Power Systems/	NOTE: Additional HPE Uninterruptible Power Systems (UPSs) are available than those listed below. For a complete list of all HPE UPSs and additional information, please visit: http://www.hpe.com/info/rackandpower R5000 Uninterruptible Power System (UPS) - Recommended HPE R5000 3U IEC309-32A High Voltage INTL Uninterruptible Power System (Recommended) AF461A HPE R5000 3U L630 High Voltage NA/JP Uninterruptible Power System (Recommended) AF460A

Related Options

NOTE: Please see the QuickSpecs for Technical Specifications and additional information at: <https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04154372> (Worldwide)

R7000 Uninterruptible Power System (UPS) - Recommended

HPE R5KVA and R7KVA 3U Extended Runtime Module (Recommended) AF464A

R7000 Uninterruptible Power System (UPS) - Extended

HPE R7000 4U 50A High Voltage NA/JP Uninterruptible Power System (Extended) AF462A

HPE R7000 4U IEC-32A High Voltage INTL Uninterruptible Power System (Extended) AF463A

NOTE: Please see the QuickSpecs for Technical Specifications and additional information at: <https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04123199> (Worldwide)

HPE Basic Power Distribution Units

NOTE: A pair of PDUs must be ordered for AC feed redundancy.

NOTE: Additional HPE Power Distribution Units are available than those listed below. For a complete list of all HPE PDUs and additional information please visit: <http://www.hpe.com/info/rackandpower>

HPE 277 Volt options for H3X08A - Extended

HPE 800VA - 277V Input / 230V Output NA Rack Mount Transformer (Extended) H3X09A

NOTE: Please see the QuickSpecs for Technical Specifications and additional information: <https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04111392> (Worldwide)

HPE Power Cords

HPE Power Cords - Extended

HPE C20 - C13 WW 250V 15Amp 2.0m Jumper Cord (Extended) AF590A

NOTE: For use with PDUs that accept C20 power cords.

NOTE: For additional power cable information, please visit: <http://www.hpe.com/info/rackandpower>

HPE Rack Options

Keyboards and Monitors - Recommended

HPE USB US Keyboard/Mouse Kit (Recommended) 631341-B21

HPE USB UK Keyboard/Mouse Kit (Recommended) 631344-B21

HPE USB FR Keyboard/Mouse Kit (Recommended) 631346-B21

HPE USB ES Keyboard/Mouse Kit (Recommended) 631348-B21

HPE USB DE Keyboard/Mouse Kit (Recommended) 631358-B21

HPE USB JP Keyboard/Mouse Kit (Recommended) 631360-B21

HPE USB IT Keyboard/Mouse Kit (Recommended) 631362-B21

HPE USB CN Keyboard/Mouse Kit (Recommended) 631364-B21

HPE USB AE Keyboard/Mouse Kit (Recommended) 638212-B21

HPE USB RU Keyboard/Mouse Kit (Recommended) 638214-B21

NOTE: Please see the QuickSpecs for Technical Specifications and additional information: <https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04168349> (Worldwide)

HPE Server Console Switch G2 with Virtual Media & CAC - Extended

HPE 0x2x16 KVM Server Console Switch G2 with Virtual Media CAC Software (Extended) AF618A

HPE 0x2x32 KVM Server Console Switch G2 with Virtual Media CAC Software (Extended) AF619A

NOTE: Please see the QuickSpecs for Technical Specifications and additional information: <https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04168373> (Worldwide)

Related Options

Related Options

HPE IP Console Switch G2 with Virtual Media & CAC - Extended

HPE 1x1Ex8 KVM IP Console Switch G2 with Virtual Media CAC Software (Extended)	AF620A
HPE 2x1Ex16 KVM IP Console Switch G2 with Virtual Media CAC Software (Extended)	AF621A
HPE 4x1Ex32 KVM IP Console Switch G2 with Virtual Media CAC Software (Extended)	AF622A
KVM USB Cnsl Itfc Adapter 1PK ALL	336047-B21

NOTE: Please see the QuickSpecs for Technical Specifications and additional information: <https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04168374>

HPE KVM Switches - Recommended

HPE 1x4 USB/PS2 KVM Console Switch (Recommended)	AF611A
HPE 1x4 KVM Console 6ft USB Cable (Recommended)	AF613A

HPE KVM Switches - Extended

HPE BladeSystem c-Class KVM Interface Adapter (Extended)	AF605A
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NOTE: required for supporting USB peripherals.

NOTE: Please see the QuickSpecs for Technical Specifications and additional information: <https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04164460> (Worldwide)

NOTE: For additional information regarding KVM switches, Serial Console servers, rack mount monitors, keyboards and all related options please see the following URL: <https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04164460>

Rack Options - Extended

HPE Advanced Series Rack Tie Down Kit (Extended)	AF076A
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NOTE: For additional information regarding Rack Options, please see the following URL: <http://www.hpe.com/info/rackandpower>

HPE Pointnext operational services

NOTE: Some options, such as Fibre Channel switches for the HPE c-Class BladeSystem, are not covered under the c3000 enclosure Care Packs and carry separate Care Packs. Care Pack service level support for these options should always be uplifted to match existing storage or server service level. Please view the option QuickSpecs or contact your Hewlett Packard Enterprise sales representative or Hewlett Packard Enterprise Authorized ServiceOne partner for Care Pack information.

Proactive Care Services

HPE 3 year Proactive Care 24x7 c3000 Enclosure Service	U3C42E
HPE 3 year Proactive Care Call to Repair c3000 Enclosure Service	U3C45E
HPE 3 year Proactive Care 24x7 c3000 Enclosure with Insight Control Service	U3P19E
HPE 3 year Proactive Care Call to Repair c3000 Enclosure with Insight Control Service	U3P22E

Installation & Start-up Services

HPE Installation c3000 Enclosure and Server Blade Service	UH749E
HPE BladeSystem c3000 Infrastructure Startup Service	UF817E
HPE BladeSystem c3000 + OS Startup Service	UF818E
HPE BladSys c3000 Encd Network Startup Service	UF814E
HPE Hardware Install c-Class Enclosure and Server Blade Service	UE494E

NOTE: Additional HPE Pointnext operational services can be found at: <https://www.hpe.com/us/en/services/it-support.html>

Power Specifications

HPE 1200W Common Slot Platinum Hot Plug Power Supply Kit

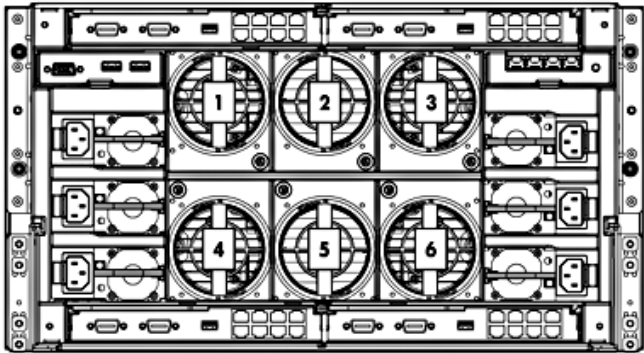
Part Number	656364-B21						
Input Voltage Range (V rms)	100-240						
Frequency Range (Nominal) (Hz)	50 / 60						
Nominal Input Voltage (Vrms)	100	120	200	208	220	230	240
Maximum Rated Output Wattage	800	900	1200	1200	1200	1200	1200
Nominal Input Current (A rms)	9.1	8.4	6.7	6.4	6.1	5.8	5.5
Maximum Rated Input Wattage Rating (Watts)	897	999	1321	1319	1317	1315	1314
Maximum Rated VA (Volt-Amp)	909	1012	1338	1337	1334	1332	1331
Efficiency (%)	89.2	90.1	90.9	91.0	91.1	91.2	91.3
Power Factor	0.998						
Leakage Current (mA)	0.42	0.50	0.83	0.87	0.92	0.96	1.00
Maximum Inrush Current (A peak)	30						
Maximum Inrush Current duration (mS)	20						
Maximum British Thermal Unit Rating (BTU-Hr)	3061	3408	4506	4501	4493	4487	4483

HPE 1200W Common Slot Silver Hot Plug Power Supply Kit

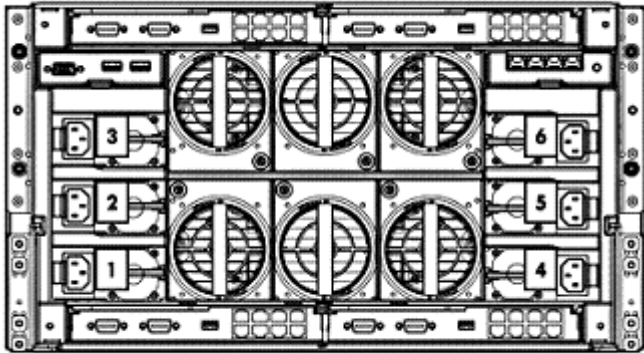
Part Number	500172-B21						
Input Voltage Range (V rms)	100-240						
Frequency Range (Nominal) (Hz)	50 / 60						
Nominal Input Voltage (Vrms)	100	120	200	208	220	230	240
Maximum Rated Output Wattage	800	900	1200	1200	1200	1200	1200
Nominal Input Current (A rms)	9.7	9.0	7.0	6.8	6.4	6.1	5.9
Maximum Rated Input Wattage Rating (Watts)	930	1034	1348	1348	1348	1348	1348
Maximum Rated VA (Volt-Amp)	970	1079	1406	1406	1406	1406	1406
Efficiency (%)	86	87	89	89	89	89	89
Power Factor	0.97						
Leakage Current (mA)	0.42	0.50	0.83	0.87	0.92	0.96	1.00
Maximum Inrush Current (A peak)	30						
Maximum Inrush Current duration (mS)	20						
Maximum British Thermal Unit Rating (BTU-Hr)	3174	3530	4600	4600	4600	4600	4600

Server Blade, Expansion Blade, and Fan Population Guidelines

Fan & power supply bay numbering



Rack power supply bay numbering



Fan bay numbering

Power supplies and fans must be placed in the following bays

Number of Fans

- 4
- 6

Number of Power Supplies
(for PS Redundant or non-redundant mode)

- 2
- 3
- 4
- 5
- 6

Number of Power Supplies (for AC Redundant mode)

- 2
- 4
- 6

Fan Bays Used

- 2,4,5, 6
- All bays filled

Power Supply Bays Used

- 1 & 2
- 1, 2, & 3
- 1, 2, 3, & 4
- 1 through 5
- All bays

Place Power Supplies in Bays:

- 1 & 4
- 1, 2, 4, & 5
- All bays filled

NOTE: With four fans, the enclosure will support only 4 half-height server blades in the bottom half of the enclosure device bays. With six fans, all 8 server bays may be filled.

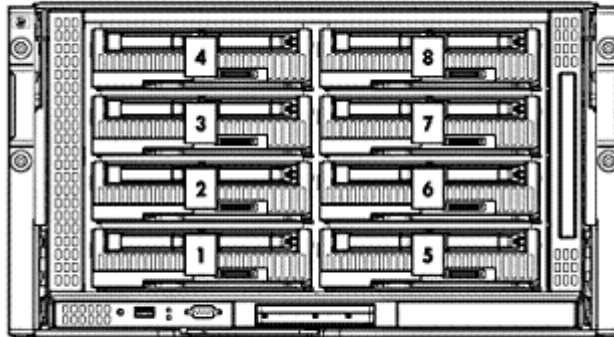
NOTE: For correct operation, fans and server blades must be installed in the correct bays. The Onboard Administrator will ensure that fans and blades are correctly placed before allowing the system to power on.

The c3000 enclosure is divided into 2 zones by the horizontal support metalwork. The lower zone (zone 1) includes bays 1, 2, 5, and 6. The upper zone (zone 2) contains bays 3, 4, 7, and 8. Within each zone a removable bay divider is used to support half-height devices. To install a full-height blade in either zone this bay divider must be removed.

NOTE: Please read the RTF card (included with each c3000 enclosure) and the "HPE BladeSystem c3000 Setup and Installation Guide" for more information on the use, installation, and removal of bay dividers.

Server Blade, Expansion Blade, and Fan Population Guidelines

Half-height server blade bay numbering

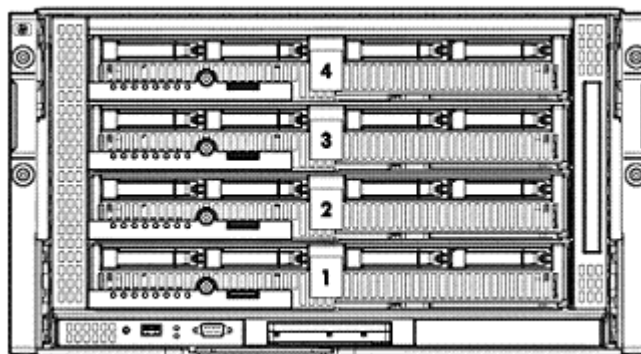


HPE BladeSystem c3000 Enclosure – Racks

1. Device Bay 1
2. Device Bay 2
3. Device Bay 3
4. Device Bay 4
5. Device Bay 5
6. Device Bay 6
7. Device Bay 7
8. Device Bay 8

NOTE: Half-height server blades should be populated from the bottom half of the enclosure, in the following order (bays 1, 5, 2, 6, 3, 7, 4, & 8)

Full-height server blade bay numbering



HPE BladeSystem c3000 Enclosure – Racks

1. Device Bay 1
2. Device Bay 2
3. Device Bay 3
4. Device Bay 4

NOTE: Full-height servers should be populated from the bottom to the top (bays 1 through 4). With four fans, only the bottom 2 bays can be used. With six fans, all bays can be used.

Server Blade, Expansion Blade, and Fan Population Guidelines

Full-height and half-height server blade mixed configurations

Each enclosure zone can support up to 1 full-height, double wide server blade, up to 2 full-height, single-wide server blades, or up to 4 half-height server blades. Additionally, zone 2 supports a mix of 1 full-height, single-wide server blade and up to 2 half-height server blades. A mixture of blades sizes is not supported in zone 1.

An overview of the mixed server blade population rule best practices are summarized below. For detailed expansion blade rules and guidelines, please see the documentation that ships with the enclosure and server blade.

1. One full-height, single-wide server and up two half-height servers may be mixed in zone 2 (the upper zone); mixing is not allowed in zone 1 (the lower zone).
2. The full-height, single wide server must be installed in the lower bays 3 and 7 and half-height server(s) directly above in bays 4 and 8.
3. Half-height server blades should be installed in the order of bays 4 then 8.
4. Before installing any full-height server blades, remove the bay divider that is used to support half-height devices.
5. A mini-divider is installed between bays 4 and 8. A mini-divider is shipped with each c3000 enclosure.

NOTE: Please read the RTF card (included with each c3000 enclosure) and the "HPE BladeSystem c3000 Setup and Installation Guide" for more information on the use, installation, and removal of bay dividers and the mini-divider for mixed configurations.

NOTE: Expansion blades can be installed in zone 2 along with both full-height, single-wide and half-height blades. For more information, please see the "Expansion blades" section later in this document.

Expansion blades

Expansion blades consist of storage blades, tape blades, and the PCI Expansion Blade. Up to 4 expansion blades are supported per HPE BladeSystem c-Class c3000 Enclosure. Expansion blades may be installed in the same zone as half-height and full-height, single-wide server blades. Expansion blades are not supported with full-height, double-wide server blades. An expansion blade is installed directly above a server blade, also known as a partner server blade. An overview of the expansion blade population rule best practices are summarized below. For detailed expansion blade rules and guidelines, please see the documentation that ships with the enclosure and expansion blade.

Expansion blade population best practices for half-height server blades:

1. One half-height partner server blade supports one expansion blade.
2. Identify the partner server blade to be installed with the expansion blade. The two blades always occupy a pair of slots as follows: 1 & 2, 3 & 4, 5 & 6, and 7 & 8.
3. Each c3000 zone contains a removable divider (also known as a device bay shelf) that is used to support half-height devices. This divider is remains installed whether the half-height devices are server or expansion blades.

Expansion blade population best practices for full-height, single-wide server blades:

1. A full-height, single-wide server blade may be mixed with half-height expansion blades in zone 2 (the upper zone) of the c3000 enclosure; mixing is not allowed in zone 1 (the lower zone).
2. The full-height, single-wide partner server blade must be installed in the lower bays 3 and 7 and half-height devices directly above in bays 4 and 8.
3. The full-height, single-wide server partner blade supports one or two expansion blades in bays 4 and 8.
4. Before installing any full-height, single-wide server blades, remove the bay divider that is used to support half-height devices.
5. A mini-divider is installed between bays 4 and 8. A mini-divider is shipped with each c3000 enclosure.
6. If installing only one expansion blade, install the expansion blade in bay 8. The remaining half-height bay (bay 4) may be populated with either a half-height device bay blank or a half-height server blade; the half-height server blade may not be partnered with the expansion blade.
7. If installing two expansion blades, the expansion blades may be two storage blades, two tape blades, two PCI Expansion Blades, or a mixture of any two.
8. Expansion blades are not supported with full-height, double-wide server blades.

NOTE: Please read the RTF card (included with each c3000 enclosure) and the "HPE BladeSystem c3000 Setup and Installation Guide" for more information on using bay dividers and the mini-divider for mixed configurations.

NOTE: For detailed expansion blade rules and guidelines, please see the documentation that ships with the enclosure and expansion blade.

Technical Specifications

Enclosure Unit	Dimensions (H x W x D) (with bezel)	10.4 x 19.1 x 32.977 in (265 x 485 x 835 mm)	
	Weight (approximate)	Maximum	300 lb (136 kg)
		(one enclosure with 8 blades and 4 interconnects installed)	
		Minimum	130 lb (59 kg)
		(one enclosure without blades and interconnects)	
	Input Requirements (per AC power supply)	Rated Line Voltage	90 – 132 VAC
			180 – 264 VAC
		Rated Input Current	9.3 A (at 100 VAC)
			9.7 A (at 120VAC)
			7.8 A (at 200 VAC)
			7.2 A (at 208 VAC)
			6.8 A (at 220 VAC)
			6.2 A (at 240 VAC)
		Rated Input Frequency	47 to 63 Hz
BTU Rating	Maximum per power supply		2728 BTU/hr (at 100 VAC)
			3069 BTU/hr (at 120VAC)
			4092 BTU/hr (at 200 to 240 VAC)
Power Specifications	To review typical system power ratings use the Power Calculator online tool located at URL: https://paonline56.itcs.hpe.com/?Page=Index		
Power Supply Output (per power supply)	Rated Steady-State Power		800 W (at 100 VAC)
			900 W (at 120 VAC)
			1200 W (at 200 to 240 VAC)
	Maximum Peak Power		880 W (at 100 VAC)
			990 W (at 120 VAC)
			1350 W (at 200 to 240 VAC)
System Inlet Temperature	Operating	10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 305 m (1.8°F per every 1000 ft) above sea level to a maximum of 3050 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 10°C/hr (18°F/hr). The upper limit may be limited by the type and number of options installed. System performance may be reduced if operating with a fan fault or above 30°C (86°F).	
	Non-operating	-30° to 60°C (-22° to 140°F). Maximum rate of change is 20°C/hr (36°F/hr).	
Relative Humidity (non-condensing)	Operating	10 to 90% relative humidity (Rh), 28°C (82.4°F) maximum wet bulb temperature, non-condensing.	
	Non-operating	5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.	
Altitude	Operating	3050 m (10,000 ft). This value may be limited by the type and number of options installed. Maximum	

Technical Specifications

		allowable altitude change rate is 457 m/min (1500 ft/min).		
Non-operating		9144 m (30,000 ft). Maximum allowable altitude change rate is 457 m/min (1500 ft/min).		
Acoustic Noise	Listed are the declared A-Weighted sound power levels (LWAd) and declared average bystander position A-Weighted sound pressure levels (LpAm) when the product is operating in a 23°C ambient environment. Noise emissions were measured in accordance with ISO 7779 (ECMA 74) and declared in accordance with ISO 9296 (ECMA 109).			
	Idle	depends on server configuration & mix of server blades		
	Operating	varies by CPU utilization, server configuration, and mix of server blades		
Option Kits	Power Supply Dimensions	Size	Height: 1.515 in (38.48 mm) Width: 3.4 in (86.36 mm) Depth: 7.5 in (190.5 mm)	
		Weight	2.5 lbs (1.13 kg)	
		Fan Option Shipping Dimensions	Size	Height: 8.75 in (223 mm) Width: 9.75 in (248 mm) Depth: 15.88 in (403 mm)
	Weight		4.0 lbs (1.8 kg)	
	Environment-friendly Products and Approach		End-of-life Management and Recycling	Hewlett Packard Enterprise offers end-of-life Hewlett Packard Enterprise product return, trade-in, and recycling programs in many geographic areas. For trade-in information, please go to: http://www.hpe.com/info/recycle . To recycle your product, please go to: http://www.hpe.com/info/recycle or contact your nearest Hewlett Packard Enterprise sales office. Products returned to Hewlett Packard Enterprise will be recycled, recovered or disposed of in a responsible manner.
		The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard Enterprise web site at: http://www.hpe.com/info/recycle . These instructions may be used by recyclers and other WEEE treatment facilities as well as Hewlett Packard Enterprise OEM customers who integrate and re-sell Hewlett Packard Enterprise equipment.		

Summary of Changes

Date	Version History	Action	Description of Change
06-Aug-2018	Version 71	Changed	Standard Features section was updated.
		Removed	SKU was deleted: 461384-B21
04-Jun-2018	Version 70	Changed	Overview, Configuration Information - Factory Integrated Models, and Related Options.
		Removed	Obsolete SKUs were deleted: 696908-B21, 696909-B21, 437575-B21, 658247-B21, 572018-B21, TA804A, TC367A, C6N31A, AF500A, H5M54A, H5M55A, H5M56A, H5M57A, H5M58A, H5M59A, H5M60A, H5M61A, H5M62A, H5M63A, H5M64A, H5M67A, H5M68A, H5M70A, H5M71A, H5M72A, H5M73A, H5M75A, BW903A, BW904A.
23-Oct-2017	Version 69	Changed	Care Pack naming and Service and Support- Parts and Materials updated.
12-Jun-2017	Version 68	Added	SKU added in Configuration Information Factory Integrated Models section: 854194-B22
		Removed	Obsolete SKUs were deleted: C6N32ABE, C6N33ABE.
03-Apr-2017	Version 67	Changed	URLs in document were updated.
		Removed	Obsolete SKUs were deleted: 590863-B21, 431643-B21.
13-Feb-2017	Version 66	Changed	Configuration Information Factory Integrated Models and Related Options sections were updated.
		Added	SKU added: 854194-B21
		Removed	Obsolete SKUs were deleted: 516733-B21, AW563A, AW564A, 516733-B21, AW563A, AW564A, BD883A, BS580B.
10-June 2016	Version 65	Changed	Overview, Configuration Information Factory Integrated Models, Related Options, and Power Specifications sections were updated.
		Removed	Removed discontinued -48VDC product and notes from QuickSpecs: 437573-B21.
25-Mar-2016	Version 64	Changed	SKUs updated in Configuration Information - Factory Integrated Models and Related Options, from: AJ820B, AJ821B, AJ822B; to: AJ820C, AJ821C, AJ822C.
22-Jun-2015	Version 63	Changed	Related Options section was updated
		Removed	Obsolete SKUs were deleted: 451439-B21, 451438-B21, TC317A, AP880A, AF470A, AF471A, AF466A, AF467A, AF468A, H3X07A, H3X08A, AZ870A, AZ871A, AZ872A, AZ873A, AZ874A, AZ875A, AZ876A, AZ877A, AZ878A, AZ879A, AZ880A, AZ881A, AZ882A, AZ883A, AZ884A, AZ885A, AF616A, AF617A, AF626A, U6W98E, UF540E
20-Jan-2015	Version 62	Changed	Overview and Related Options sections were updated
		Removed	Deleted SKU AF500A Obsolete SKUs Deleted: B7E01A, AF506A, AF914A
07-Nov-2014	Version 61	Changed	Overview, Pre-configured Models and Configuration Information Factory Integrated Models sections were updated
09-Sep-2014	Version 60	Changed	What's new, Configuration Information Factory Integrated Models, Related Options sections were updated
		Added	SKU Added: 696910-B21
		Removed	Obsolete SKUs were removed: AF603A, TC318A, AF508A, 498358-B21
01-Aug-2014	Version 59	Changed	Changes were made in North America QuickSpecs.

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11-Jul-2014	Version 58	Changed	Changes were made in North America QuickSpecs.
10-Jun-2014	Version 57	Changed	Changes made throughout the QuickSpecs.
18-Feb-2014	Version 56	Changed	Configuration Information and Related Options were revised.
10-Dec-2013	Version 55	Changed	Changes were made throughout the QuickSpecs.
22-Nov-2013	Version 54	Removed	Removed the What's New Section Removed part number from the Related Options/ HPE c Class Power Supply Section
13-Sep-2013	Version 53	Changed	Configuration Information Factory Integrated Models and Related Options were revised.
15-Mar-2013	Version 52	Changed	Overview: Updated What's New section Models: Updated HPE BladeSystem c-Class Server Blade Enclosures HPE BladeSystem c-Class Overview: Updated HPE ProLiant & Integrity Server Blades and HPE D2200sb Storage Blade. Configuration Information Factory Integrated Models: Updated Step 2. Related Options: Updated HPE Onboard Administrator, HPE c-class Power Supply, HPE Insight Software and HPE Storage Blade. Power Specifications: HPE 1200W Common Slot Platinum Hot Plug Power Supply Kit and Note to section.
		Removed	Removed "Platinum" reference throughout QS. Removed NOTE from Technical Specifications section.
01-Mar-2013	Version 51	Removed	Related Options: Removed TC276AAE and TC277AAE from HPE Insight Software section.
19-Feb-2013	Version 50	Changed	Changes made throughout the QS to reflect the title changes to HPE BladeSystem c3000 Platinum Enclosure. Models section was updated. Service and Support section was completely revised. Other changes made in the Configuration Information and Related Options.
14-Dec-2012	Version 49	Added	Configuration Information Factory Integrated Models: added models Related Options: added parts in HPE Rack Series
24-Sep-2012	Version 48	Changed	Changes made throughout the QuickSpecs.
31-Aug-2012	Version 47	Changed	Changes made throughout the QuickSpecs.
14-May-2010	Version 46	Changed	Changes made in the Related Options section.
26-Mar-2012	Version 45	Changed	Changes made throughout the QuickSpecs.
06-Mar-2012	Version 44	Added	Added a reference to Gen8.
14-Nov-2011	Version 42	Changed	HPE Insight management software, Optimized, Standard and Basic Care Packages and HPE c-Class Power Supply were revised.
29-Sep-2011	Version 41	Changed	Revisions made in the Configuration Information and Related Options sections.
26-Sep-2011	Version 40	Changed	Power Supplies, HPE BladeSystem c-Class Interconnects, HPE Ultrium Tape Blades and HPE Pointnext operational services were revised What's New was added to the Overview
30-Aug-2011	Version 39	Changed	Standard and Basic Care Packages were updated in Service and Support Changes were made throughout Configuration Information Factory Integrated Models and Related Options
12-Aug-2011	Version 38	Changed	Link corrections were made in the Related Options section.
24-Jun-2011	Version 37	Changed	Changes made throughout the QuickSpecs. Including the removal of ProCurve & StorageWorks.
03-Jun-2011	Version 36	Changed	Changes made to North America and Canada only.
29-Apr-2011	Version 35	Changed	The Service and Support section was completely revised and other changes made throughout the QuickSpecs.
11-Feb-2011	Version 34	Changed	Mixed Configuration - Full Height and Half Height Population was revised HPE R5500 UPS Tower Conversion Kit was removed from HPE Uninterruptible Power Systems - Rack HPE c3000 Enclosure Options was removed from Related Options
14-Jan-2011	Version 33	Changed	HPE BladeSystem c-Class Interconnect and Mezzanine Components URLs were modified in HPE BladeSystem c-Class Interconnects Options HPE Uninterruptible Power Systems product descriptions were revised

Summary of Changes

			These fans are for the HPE BladeSystem c3000 CTO Enclosure note was removed from HPE c-Class Active Cool Fan in Step 2 HPE PCI Express Mezzanine pass-thru card for HPE BladeSystem was removed from HPE c-Class Storage Blades
10-Jan-2011	Version 32	Changed	HPE StorageWorks D2200sb Storage Blade was added and HPE StorageWorks SB40c Storage Blade was removed HPE Insight Control for BladeSystem Licenses, HPE Uninterruptible Power Systems - Rack, HPE Insight Software and HPE Virtual Connect Enterprise Manager product descriptions were revised HPE Virtual Connect FlexFabric 10Gb/24-port Module for c-Class BladeSystem is not compatible with the c3000 enclosure note was added to HPE BladeSystem c-Class Ethernet Interconnects
15-Nov-2010	Version 31	Changed	Product descriptions were revised throughout, Brocade SAN Switch for HPE BladeSystem c-Class was added and HPE StorageWorks Network Storage Servers was removed.
08-Oct-2010	Version 30	Changed	HPE Tape Backup and HPE Pointnext operational services were revised Service and Support was added HPE TFT7600 G2 KVM Console Rackmount Keyboard Monitors were added to Keyboards and Monitors
		Removed	HPE BladeSystem c3000 Enclosure Tower was removed What's New was removed from the Overview HPE c3000 Enclosure DVD Drive was removed HPE 4Gb Virtual Connect Fibre Channel Module for c-Class BladeSystem was removed from Step 3 HPE Insight Control, Single-Server License including 1 year of 24x7 Technical Support and Update was removed from HPE Insight Software HPE Disk Backup was removed from Related Options
02-Jul-2010	Version 29	Added	Mixing of the Active Cool 100 and Active Cool 200 in a c3000 enclosure is not supported note was added to HPE c-Class Active Cool Fans.
		Removed	Part numbers 508669-B21, AF600A and AF602A were removed and 2x16 Console Switch with Virtual Media was removed from HPE KVM Switch Options.
21-Jun-2010	Version 28	Changed	HPE Rack 10000 G2 Series and HPE Rack Options were completely revised HPE Insight Control for Linux was added to HPE Insight Software
		Removed	HPE 1Gb Virtual Connect Ethernet Module for c-Class BladeSystem, HPE 10Gb Ethernet BL-c Switch and 10GbE Dual Port Mezzanine Adapter for HPE BladeSystem c-Class were removed from HPE BladeSystem c-Class Ethernet Interconnects HPE Brocade 4/12 SAN Switch, HPE Brocade 4/24 SAN Switch Power Pack and HPE Brocade 4/24 SAN Switch were removed from HPE BladeSystem c-Class FC SAN Interconnects 4x1x16 IP Console Switch with Virtual Media and HPE USB KVM Cable with audio, 6-2-pack were removed from HPE KVM Switch Options
28-Apr-2010	Version 27	Removed	Removed part number AH351B from a Note in Step 2A of the Configuration Information section.
12-Mar-2010	Version 26	Changed	NOTE was added to HPE 1200W -48V DC Common Slot Power Supply and all references to 2 x 1 x 16 IP Console Switch with Virtual Media, part number AF601A, were removed.
16-Feb-2010	Version 25	Changed	Changes were made throughout the Configuration Information Factory Integrated Models and Related Options sections.
25-Nov-2009	Version 24	Changed	Minor edits were made within the QuickSpecs.
16-Nov-2009	Version 23	Changed	Changes were made throughout the QuickSpecs.
02-Oct-2009	Version 22	Changed	Changes made throughout the QuickSpecs except for the Models and Technical Specifications sections.
25-Sep-2009	Version 21	Changed	Changes made to the North America and Canada versions only.
28-Aug-2009	Version 20	Changed	Changes made to the North America and Canada versions only.

Summary of Changes

17-Jul-2009	Version 19	Changed	Revisions were made in the HPE BladeSystem c-Class Overview and Related Options sections.
12-Jun-2009	Version 18	Added	Rack Rails to NOTE for HPE BladeSystem c3000 CTO Enclosure- Rack in Step 2 of the Configuration Information - Factory Integrated Models section HPE StorageWorks D2D2504i Backup System to Data Protection in the Related Options section
		Changed	Updated the Keyboards and Monitors in the Related Options section HPE BLc3000 Rack Rails was removed from Other Enclosure Options in Step 2A of the Configuration Information - Factory Integrated Models section
27-Apr-2009	Version 17	Added	HPE ProLiant Onboard Administrator to the HPE BladeSystem c-Class Overview section Active Cool 100 Fan throughout the QuickSpecs
		Changed	NOTE for HPE iLO Advanced Pack for BladeSystem or iLO Advanced and purchase information NOTE for HPE Insight Control Suite (ICE) in the HPE BladeSystem c-Class Overview section and a NOTE was added to HPE Insight Control suite in the Related Options section Replaced "ProLiant" with "Insight" for HPE Insight Essentials Foundation Pack in Core Infrastructure Management in the HPE BladeSystem c-Class Overview section Revised Onboard Administrator for Tower Model and removed Power Supplies from Step 2 of the Configuration Information Factory Integrated Models section Revised Additional c3000 Power Supplies and HPE Insight Control suite for BladeSystem Licenses and added Redundant Onboard Administrator to Step 2a of the Configuration Information Factory Integrated Models section Updates were made throughout the Models section and to the NOTES section of the Configuration Information Factory Integrated Models section Completely revised HPE StorageWorks Ultrium Tape Blades, HPE Insight Control suite (ICE) and Server Management Stand Alone Software Products in the HPE BladeSystem c-Class Overview and Related Options sections and Data Protection in the Related Options section Revisions were made throughout Step 2 and Step 2A in the Configuration Information Factory Integrated Models section and to Service and Support Offerings in the Related Options section Removed 10642 G2 (42U) Rack Cabinet from HPE Rack 10000 G2 Series, 10642 Rear Extension Kit from Rack Options for Rack 10000 G2 Series and HPE Modular Cooling from the Related Options section
26-Jan-2009	Version 16	Changed	Changes made throughout the entire QuickSpecs.
17-Nov-2008	Version 15	Changed	Changes were made to the following sections: Overview What's New At A Glance HPE BladeSystem c-Class Overview HPE BladeSystem Overview HPE SB40c Storage Blade HPE StorageWorks Tape Blades HPE BladeSystem c-Class Interconnect Enclosure HPE Insight Control Environment for BladeSystem Management Suite Server Management Stand Alone Software HPE Enterprise Configurator Configuration Information Factory Integrated Models Step 2A: Select additional optional enclosure options Step 3: Select additional (one to four) interconnects Related Options Other c3000 enclosure options HPE BladeSystem c-Class Ethernet Interconnects

Summary of Changes

			HPE BladeSystem c-Class FC SAN Interconnects
30-Oct-2008	Version 14	Removed	Removed model number 409513-B22 from the Related Options section.
15-Sep-2008	Version 13	Changed	Changes were made to the following sections: Overview What's New At A Glance HPE BladeSystem c-Class Overview HPE BladeSystem Overview HPE BladeSystem c-Class c3000 Enclosure HPE Insight Control Environment for BladeSystem Management Suite Configuration Information Factory Integrated Models Step 2: Determine quantity of HPE BladeSystem c-3000 Enclosures to purchase and choose Required Options Step 2A: Select additional optional enclosure options Step 3: Select additional (one to four) interconnects Step 4: Select rack power distribution for installing the enclosure into a rack. Related Options c3000 Enclosure Options HPE BladeSystem c-Class c3000 Enclosure Other c3000 enclosure options HPE BladeSystem c-Class FC SAN Interconnects HPE Monitored Power Distribution Unit
14-Jul-2008	Version 12	Added	Additions made to the Overview, HPE BladeSystem c-Class Overview, Configuration Information and Related Options sections: HPE 8/12 and 8/24 SAN Switch c-Class BladeSystem Power Cord, C20 C13, 15A, Universal Jumper, 2m HPE D2D Backup Systems
		Changed	Change was made to MSA1000 in Factory Express Portfolio in the HPE BladeSystem c-Class Overview section and to Data Protection in the Related Options section HPE Insight Control Environment for BladeSystem Management Suite Server Management Stand Alone Software Product NOTES section for HPE NC512m Dual Port 10GbE Multifunction BL-c Adapter in HPE BladeSystem c-Class Ethernet Connects Headings for HPE Modular Power Distribution Unit and Uninterruptible Power System in Step 4 of the Configuration Information Factory Integrated Models section Monitors and Keyboards and HPE KVM Switch Options in the Related Options section
11-Apr-2008	Version 11	Changed	Changes made to the North America and Canada QuickSpecs only.
31-Mar-2008	Version 9 to 10	Added	Cisco Catalyst Blade Switch 3120X, Part #451439-B21 and Cisco Catalyst Blade Switch 3120G, Part #451438-B21, were added to the Configuration Information and Related Options sections and BL460c Smart Buy Server Blade, Part #461273-001, was added to the Smart Buys section.
		Changed	Changes were made in the Overview, HPE BladeSystem c-Class Overview, Configuration Information and Related Options sections.
14-Mar-2008	Version 9	Changed	Changes made to the North America and Canada QuickSpecs only.
03-Mar-2008	Version 8	Changed	Changes made to the North America and Canada QuickSpecs only.
11-Feb-2008	Version 7	Changed	Changes were made throughout the QuickSpecs.
18-Jan-2007	Version 6	Changed	Changes made to the North America and Canada QuickSpecs only.
14-Jan-2008	Version 5	Added	The HPE BladeSystem c3000 Enclosure - Tower Model option was added.
		Changed	Changes were made throughout the QuickSpecs to reflect the addition of the tower option.
02-Nov-2007	Version 4	Changed	Changes made to the At A Glance section.
05-Oct-2007	Version 3	Changed	Changes made to the Service and Support Offerings section of Related Options.

Summary of Changes

01-Oct-2007	Version 2	Changed	Changes made to the North America and Canada QuickSpecs only.
12-Sep-2007	Version 1	Created	New QuickSpecs



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