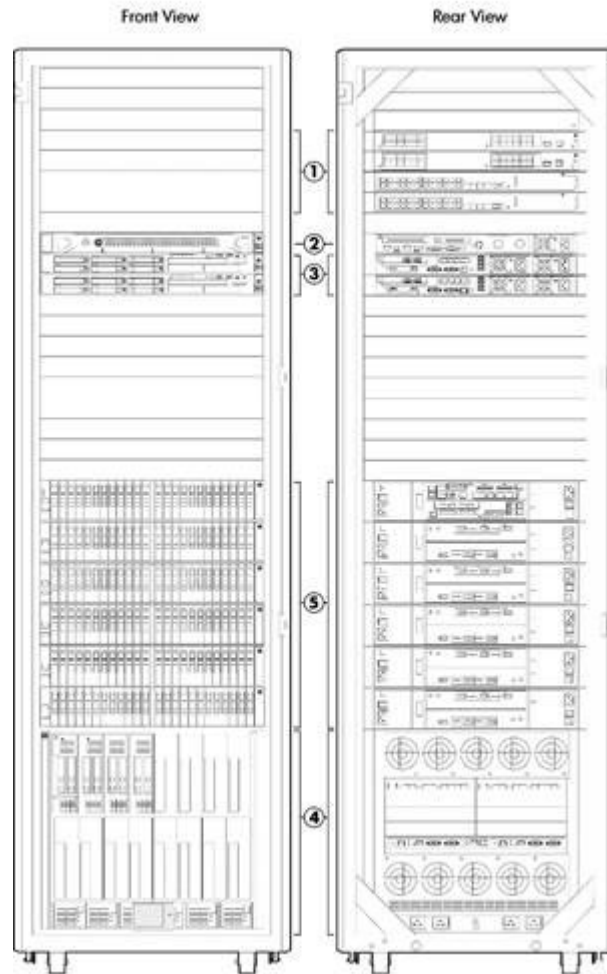


### Overview



1. Two (2) HP 5920AF-24XG switches and Two (2) HP 5120-24G EI switches
2. 3PAR StorServ 7200 Service Processor
3. Two (2) HP ProLiant DL360p Gen8 management servers
4. One (1) HP BladeSystem c7000 enclosure, Virtual Connect FlexFabric; Four (4) to Sixteen (16) HP ProLiant BL460c Gen8 E5-v2 servers
5. One (1) Storage component HP 3PAR StoreServ 7200 Storage Base

**NOTE:** The HP ConvergedSystem 700 for Virtualization is a standardized virtualization platform based on HP blade servers that includes Four (4) to Sixteen (16) blade servers. This configuration allows for expansion kits that add Four (4) blade servers and additional Thirty Six (36) X 300GB 15k drives. Up to a total of Three (3) expansion kits can be added for a total of Sixteen (16) blade servers and One Hundred and Forty Four (144) drives.

### Overview

#### What's New?

- HP ConvergedSystem 700 for Virtualization delivers a simplified, pre-designed, scalable virtualization platform for enterprise customers that can be expanded to meet business needs
- HP ConvergedSystem 700 for Virtualization provides virtualization solutions for customers desiring blade server based virtualization systems.
- HP ConvergedSystem 700 for Virtualization has the capability to order modular expansion details of which are provided in this document

#### At A Glance

HP ConvergedSystems for Virtualization are pre-engineered balanced systems that are easy to procure, manage, scale and support that can dramatically simplify IT. Based on market leading HP Converged Infrastructure, they are designed to help businesses quickly harness the full potential of virtualization.

The HP ConvergedSystem 700 for Virtualization provides faster deployment, simpler lifecycle management, and unified support. This optimized solution is built on standardized infrastructure, lowering the cost and reducing the risk of virtualization deployments. With modular scalability, they easily grow to meet business demands. The end-to-end solution is designed to be reliable and is covered by HP Proactive Care support and can be sourced entirely from HP, inclusive of VMware software licenses if needed. Key features and benefits include

- **Scalable architecture which can be upgraded in modular increments** - The system is based on a common architecture of HP Converged Infrastructure that delivers modularity in the configuration of compute and storage components. The base kit plus expansion options provide an ability to uniquely meet a broad set of virtualization requirements. Expansion to accommodate additional capacity needs is made easy by simply scaling out the system with additional compute and storage add-ons.
- **Complete system** - HP ConvergedSystem 700 for Virtualization is built on the latest HP Converged Infrastructure technology including HP BladeSystem servers, HP 3PAR StoreServ storage, and HP Networking, optimized and pre-integrated with vCenter Server and vSphere Enterprise Plus, creating an ideal virtualization platform for business applications.
- **Deeply integrated virtualization and storage** - HP 3PAR StoreServ storage and software platforms support multiple levels of integration with vSphere, providing a doubling of VM density to improve performance and scalability, and TCO savings of up to 50%.
- **Simplified, consolidated management** - HP Insight Control for vCenter Server integrates the manageability features of HP Converged Infrastructure products into the vCenter management and monitoring console. This combination provides administrators increased control and insight from a single pane of glass.
- **Pre-built system implemented on site.** The system is pre-integrated in the HP factory based on extensively tested configuration guidelines. Included implementation services quickly get the system up and running to peak performance, reducing the risk of disruption to the existing environment.
- **Solution level support** - Personalized and Proactive - HP offers Proactive Care with Personalized Support Option and Proactive Select to support the complete solution, including the HP hardware, software and software.

The HP ConvergedSystem 700 for Virtualization is built on well-established HP technologies and services including:

- HP ProLiant DL360p Gen8 Rack Mount servers
- HP BladeSystem c7000 Platinum Enclosure
- HP ProLiant BL460c Gen8 E5-v2 Server Blades
- HP 3PAR StoreServ 7200 Storage Base
- HP 642 42U i-Series Shock Rack
- HP Virtual Connect FlexFabric
- HP Networking HP5120-24G switches
- HP Networking HP 5920AF-24XG switches
- HP 3PAR Operating System Software 3.1.2

### Overview

- HP 3PAR 7200 Application Suite for VMware
- HP 3PAR Recovery Manager for vSphere
- HP 3PAR Plug-In for VMware vCenter
- HP Insight Control v7.2 - including iLO Advanced and the HP Insight Control extension for VMware vCenter
- HP Factory Integration through HP Factory Express provides solution integration, validation, and on-site installation.
- HP Proactive Care provides a single source support for the complete ConvergedSystem 700 for Virtualization system, including the VMware software.

For more information about the HP ConvergedSystem 700 for Virtualization see: <http://www.hp.com/go/converged/cs700virt>

For more information about HP Insight Control, see: <http://www.hp.com/go/insightcontrol>

For more information about HP and VMware see: <http://www.hp.com/go/vmware>

For more information about HP 3PAR StoreServ Storage see: <http://www.hp.com/go/3par>

For more information about HP blades see: <http://www.hp.com/go/bladesystem>

For more information about HP Factory Express see: [www.hp.com/go/factoryexpress](http://www.hp.com/go/factoryexpress)

For more information about HP Matrix Operating Environment software see: <http://www.hp.com/go/moe>

### Software

**HP ConvergedSystem 700 for Virtualization software** The HP ConvergedSystem 700 for Virtualization comes standard with HP Insight Control v7.2 software, the HP Insight Control plug-in for vCenter, vSphere 5.1 Enterprise Plus and vCenter Server Standard. HP Insight Control is installed and configured at the customer site. Software is factory installed for convenience and licenses are included, if purchased with the solution. . For customers that have existing ELAs (Enterprise License Agreements) - please inform your sales team so that you are able to take advantage of your site license. For a complete Solution Level Support experience from HP for release the ConvergedSystem 700 for Virtualization, customers will need to purchase their licenses from HP. This will include HP support covering the software. Microsoft Windows Server 2008 R2 Datacenter Edition is included on the management nodes. Customers will need to supply OS licensing for the VMs they deploy.

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**vSphere, vCenter Server** HP and VMware together provide powerful integrated solutions for customers who want the confidence of deploying VMware virtualization and cloud software on certified systems with comprehensive services and seamless support. The long-standing partnership between HP and VMware, based on over 12 years of collaboration in engineering, sales, and marketing, has resulted in leading market positions and customer successes across a wide range of industries including financial services, health care, telecommunications, manufacturing and the public sector.

VMware vSphere and vCenter are preinstalled on the HP ConvergedSystem 700 for Virtualization and necessary licenses are included, unless removed from the order based on an existing customer ELA. For customers that maintain ELAs (Enterprise License Agreements) for software - please inform your sales team that your ConvergedSystem 700 for Virtualization for should take advantage of your site license. For a complete Solution Level Support experience from HP, customers will need to purchase their licenses from HP. When purchasing licenses with HP ConvergedSystem 700 for Virtualization, one (1) vSphere Enterprise Plus license per socket is included by default. Please ensure that you meet minimum entitlement requirements for your particular configuration. Additional vSphere Enterprise Plus licenses can be purchased through HP at the time of order.

For more information on software censing and packaging from HP, see:

[http://h18004.www1.hp.com/products/quickspecs/12307\\_div/12307\\_div.html#Overview](http://h18004.www1.hp.com/products/quickspecs/12307_div/12307_div.html#Overview)

For more information about vSphere Enterprise Plus, see:

<http://www..com/products/datacenter-virtualization/vsphere/overview.html>

For more information about vCenter Server, see:

<http://www..com/products/vcenter-server/overview.html>

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### Software

#### HP Insight management software

#### HP Insight Control

#### HP Insight Control plug-in for vCenter

#### HP Integrated Lights-Out 4 (iLO 4)

- HP Insight Control is essential server management software that enables you to fully utilize the management capability built into your ProLiant servers. The combination of HP ProLiant with Insight Control delivers the best managed servers in the industry. For more information, see: [www.hp.com/go/insightcontrol](http://www.hp.com/go/insightcontrol).
- HP Insight Control for vCenter adds integrated extensions to make the ProLiant management information available through the vCenter console, and also adds health monitoring and alerts, proactive virtual machine management, and ProLiant OS deployment and update capabilities. For more information, see: [www.hp.com/go/icvc](http://www.hp.com/go/icvc).
- " HP Insight Control remote management, featuring HP Integrated Lights-Out 4 (iLO) Advanced, provides comprehensive lights-out remote management capabilities for ProLiant servers, including high-performance virtual KVM for routine and emergency remote administration, remote access to server power control and event logs, virtual media for simple deployment and update of remote servers, and single server power measurement and regulation. For more information, see: [www.hp.com/go/iLO](http://www.hp.com/go/iLO).

### Other Services

#### Warranty services

The HP ConvergedSystem 700 for Virtualization for is covered by a global limited warranty and supported by HP Services. Beyond the warranty, Proactive Care is the minimum support with a choice of reactive response of 24x7 4hr onsite response or 6 hour call-to-repair. See Step 2 in "How to Order" section.

**NOTE:** Warranty varies by component. Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response. Warranty repairs may be accomplished through the use of Customer Self Repair (CSR) parts. These parts fall into two categories: 1) Mandatory CSR parts are designed for easy replacement. A travel and labor charge will result when customers decline to replace a Mandatory CSR part; 2) Optional CSR parts are also designed for easy replacement but may involve added complexity. Customers may choose to have HP replace Optional CSR parts at no charge. Additional information regarding worldwide limited warranty and technical support is available at: <http://h18004.www1.hp.com/products/servers/platforms/warranty/index.html>.

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#### HP Financial Services

To support customers' transition, HP Financial Services (HPFS) can help in a way that you may not have considered. HPFS can help you invest in your business while preserving precious capital.

For more information, contact your local HP Financial Services Representative. In the United States, call 1-888-277-5942. In Canada, dial 1-800-HP-LEASE. For more information please visit: [www.hp.com/hpfinancialservices](http://www.hp.com/hpfinancialservices) for links to HP Financial Services around the world.

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#### End-of-life management and recycling

Hewlett-Packard offers end-of-life HP product return, trade-in, and recycling programs in many geographic areas. For trade-in information, please go to: <http://www.hp.com/go/green>. To recycle your product, please go to: <http://www.hp.com/go/green> or contact your nearest HP sales office. Products returned to HP 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 web site at: <http://www.hp.com/go/green>. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

### Installation, Startup and Support Services

**HP ConvergedSystem 700 for Virtualization services** The following services are included with all HP ConvergedSystem 700 for Virtualization systems:

- Factory integration services to rack, cable, and configure the hardware and software (including vSphere and vCenter) infrastructure, based in part on Customer Intent Document (CID) to ensure that system is built and ready for datacenter integration (see NOTE below).
- Integration services into customer data center, using customer settings such as IP addresses, hostnames, and other information needed for datacenter integration.
- Installation and Startup Services (via HP Factory Express service Level 4) start up services, including:
  - Unpack system and inspect for damages
  - Connection of HP ConvergedSystem 700 for Virtualization into customer network environment
  - Basic configuration of the network uplinks to the customer environment and connection verification
  - Assistance with license redemption and End User License Agreement (EULA) acceptance assurance
  - Installation of HP Insight Control (and associated components)
  - Basic solution level functionality testing
  - Review equipment and basic processes, including process for placing calls to request support
- 3yr HP Proactive Care 6hr Call-to-Repair with Personalized Support Option is the recommended support level. Additional support levels and services are available. See Step 2 in How to Order section below.

**NOTE:** Customer is required to provide cables for uplinks.

**NOTE:** The factory integration services included in this solution require a Customer Intent Document (CID) to assist with the configuration and successful installation and implementation of the solution. The CID Reference ID# is required to be in place prior to sale. Before issuing a purchase order against this solution, please contact your HP sales representative to engage an HP Engagement Project Manager (EPM) who will manage the CID process.

**NOTE:** HP ConvergedSystem 700 for Virtualization does not include advanced data center Network Integration Services. Some customers that do not have networking expertise internally may require Network Integration Services. For these customers, it is highly recommended that a custom network integration service be arranged with HP TS Consulting. For more information, please contact your TS sales representative.

#### Connecting the HP ConvergedSystem 700 for Virtualization solution in the datacenter

##### **Solution Rack**

Each rack has two (2) 5920 top of rack switches with up to four (4) network uplinks per switch to connect to the datacenter. Transceivers and appropriate cables need to be ordered or provided separately. Both 10Gb and 1Gb options are supported.

For transceiver options refer to the HP 5920 Network Switch QuickSpecs. [http://h18004.www1.hp.com/products/quickspecs/14260\\_div/14260\\_div.pdf](http://h18004.www1.hp.com/products/quickspecs/14260_div/14260_div.pdf)

##### **Storage**

There are two connectivity requirements for the storage component, connectivity of the Service Processor and connectivity of the management ports on the controllers. There are CAT5 Ethernet cables included in the storage component for this connectivity

### How to Order

**NOTE:** The HP ConvergedSystem 700 for Virtualization includes all HP hardware, and HP software components as well as factory integration, onsite installation and startup, and 3 years of hardware and software support services.

**NOTE:** All hardware components are factory integrated and have been localized to US English. ConvergedSystem 700 for Virtualization comes with vSphere 5.1 Enterprise Plus, vCenter Server Standard, Insight Control v7.2, Insight Control v7.2 for vCenter plug-in, Factory Express level 4 configuration and onsite integration as defaults. Customers that have ELAs (Enterprise License Agreements) covering vSphere 5.1 U1 Enterprise Plus and vCenter Server Standard are not required to purchase these licenses from HP.

**NOTE:** Management servers are mandatory for the HP ConvergedSystem 700 for Virtualization in order to ensure complete provisioning and initial installation and setup. Customers integrating HP ConvergedSystem 700 for Virtualization into existing vCenter and/or centralized management environments may use their IT resources, Channel Partners, or HP Services to customize the management environment and redeploy the DL360p Gen8 servers in the event that HP ConvergedSystem 700 for Virtualization - specific management servers are not desired.

**NOTE:** While a single SKU is utilized for ease of ordering, the HP ConvergedSystem 700 for Virtualization is not a single SKU system. The SKU number associated with the system configuration triggers the inclusion of all required and optional components of the solution at the time of ordering.

**NOTE:** Always use blanking panels to fill all remaining empty front panel U-spaces in the rack. This arrangement ensures proper airflow. Using a rack without blanking panels will result in improper cooling that can lead to thermal damage.

**NOTE:** . For specific details on storage refer to the HP 3PAR StoreServ 7000 QuickSpecs.

StoreServ 7000 QS: [http://h18000.www1.hp.com/products/quickspecs/14433\\_div/14433\\_div.html](http://h18000.www1.hp.com/products/quickspecs/14433_div/14433_div.html)

### Step 1: Order HP ConvergedSystem 700 for Virtualization. Select the appropriate level of compute and storage components to meet your virtualization and performance needs.

**Models** **HP ConvergedSystem 700 for Virtualization** 751865-B21

#### configuration includes the following:

One (1) HP 42U 1075mm i-Series Shock Rack which includes:

- One (1) HP BLc7000 3 IN LCD ROHS Enclosure (virtualization host). Each enclosure is configured with:
  - One (1) HP 6X 2400W Platinum Efficiency F10 Power Supply bundle
  - One (1) 6x HP Active Cool 2000 Fan Bundle
  - Two (2) HP c7000 Onboard Administrator with KVM Option
  - Four (4) HP ProLiant BL460c Gen8 E5-v2 Servers. Each server is configured with:
    - Two (2) HP BL460c Gen8 Intel® Xeon® Processors
      - HP BL460c Gen8 E5-2650v2 Kit
    - 256 GB of memory
      - Sixteen (16) HP 16GB 2Rx4 PC3-14900R-13 Kit
    - One (1) HP Smart Array P220i Controller
    - Two (2) 6G SASFF SC HP 300GB 15k Enterprise Hard Drives
    - One (1) HP FlexFabric 10Gb 2P 554FLB Flexible LOM

#### AND

- Two (2) HP ProLiant DL360p Gen8 Servers (Management Station). Each server is



### How to Order

configured with:

- 256 GB of memory
  - Sixteen(16) HP 16GB 2Rx4 PC3-14900R-13 Kit
- Two (2) Intel® Xeon® E5-2690v2 (3.0GHz/10-core/25MB/8.0GT-s QPI/130W, DDR3-1866, HT, Turbo2- 3/3/3/3/3/3/4/5/6)
- One (1) HP 2GB Flash Backed Write Cache for P-Series Smart Array
- Eight (8) 6G SAS SFF SC HP 300GB 15K Enterprise Hard Drives
- One (1) HP 82Q 8Gb Dual Port PCI-e FC HBA
- One (1) HP Ethernet 1Gb 4-port 331T Adapter
- One (1) HP FlexFabric 10Gb 554FLR-SFP+ FIO Adapter
- One (1) HP 9.5mm SATA DVD ROM Jb Kit
- Two (2) HP 750w CS Platinum Power Supply Kit

#### **AND: ( Please see StoreServ 7000 QuickSpecs for complete details)**

- The 7200 Base kit includes the following:
- One (1) - HP 3PAR StoreServ 7200 2-node Storage Base
- Five (5) - HP M6710 2.5 inch 2U SAS Drive Enclosure
- Thirty-six (36) - HP M6710 300GB 6G SAS 15K rpm SFF (2.5-inch) Hard Drive
- One (1) - HP 3PAR 7000 Service Processor

#### **AND**

- Two (2) HP Virtual Connect Flex Fabric 10/24-port Module for c-Class BladeSystem
- Two (2) HP 5920AF-24XG Switch
- Two (2) HP 5120-24G EI Switch with 2 Slots
- Four (4) HP Intelligent Mod PDU with following options: 24a Na/Jpn Core or 40a Na/Jpn Core or 32a INTL Core or 3ph 40a Na/Jpn Core or 3ph 24a Na/Jpn Core or 3ph 32a Intl Core or 3ph 48a Na/Jpn; plus (Four (4) HP 5xC13 Intelligent PDU Ext Bars G2 Kit (pair)
- One (1) HP Insight Control v7 (C6N33A) Enc FIO Bundle 16 License (per enclosure)
- Two (2) Insight Control v7 (C6N36A) ML/DL/BL FIO Bundle License
- One (1) HP Insight Control for vCenter v7.2
- One (1) VMware vCenter Server Std 3yr, 9x5 (BD725A) (included as default may be removed in case of existing and valid ELA)
- Two (2) vSphere Enterprise Plus 1P 3yr 9x5 Nm Lic per server (BD715A) (included as default per server, may be removed in case of existing and valid ELA)
- Two (2) Microsoft Windows Server 2008 R2 Enterprise Edition 10 CAL (included as default in the management nodes and may be removed at customer request)

#### **AND**

- Zero (0) to Three (3) ConvergedSystem 700 for Virtualization Expansion Kits which 751866-B21 include:

#### **ConvergedSystem 700 for Virtualization expansion block up to three (3)**

Four (4) HP ProLiant BL460c Gen8 E5-v2 Servers. Each server is configured with:

- Two (2) HP BL460c Gen8 Intel® Xeon®

### How to Order

- HP BL460c Gen8 E5-2650v2 Kit (2 processors)
- 256 GB of memory
  - 16 HP 16GB 2Rx4 PC3-14900R-13 Kit
- One (1) HP Smart Array P220i Controller
- Two (2) 6G SAS SFF SC HP 300GB 15K HDD Enterprise Hard Drives
- One (1) HP FlexFabric 10Gb 2P 554FLB Flexible LOM
- Additional 3PAR 7200-2N storage (751873-B21) comprising Thirty six (36 ) 6G SASFF SC HP 300GB 15K HDD Enterprise Hard Drives

## Step 2: Choose HP Care Pack Support and Additional Services

### HP Service and Support

HP 3yr Proactive Care with Personalized Support Option is the base support level included with a ConvergedSystem for Virtualization. For additional choices, select from one of the support offers below.

**NOTE:** Only 3yr and 5yr Care Pack durations are available to match the software subscription durations of the licenses.

#### HP Proactive Care - 3yr or 5yr

**HP Proactive Care:** Keep your systems stabilized and optimized to achieve a high level of appliance availability through a superior call experience with end-to-end case management, advanced technical expertise, and proactive service management. Customize your reactive support level by selecting either 6 hour call-to-repair or 24x7 with 4 hour onsite response.

**HP Proactive Care with Personalized Support Option:** To enhance your Proactive Care experience, add the Personalized Support option. With this option, an assigned account services manager (ASM) will provide you personalized support. Operational and technical advice helps you meet your IT objectives. The work is guided through an agreed support plan and reviewed twice a year to enable alignment and proper focus on current and emerging issues.

**NOTE:** Choose from 24x7 or 6hr call-to-repair reactive levels. There is also the option to add Defective Media Retention.

5yr HP Proactive Care 6hr CTR with Personalized Support Option	H1K94A5 + H4B58A5#001
5yr HP Proactive Care 6hr CTR	H1K94A5
3yr HP Proactive Care 6hr CTR with Personalized Support Option	H1K94A3+ H4B58A3#001
3yr HP Proactive Care 6hr CTR	H1K94A3
5yr HP Proactive Care 6hr CTR w/DMR with Personalized Support Option	H1K95A5 + H4B58A5#001
5yr HP Proactive Care 6hr CTR w/DMR	H1K95A5
3yr HP Proactive Care 6hr CTR w/DMR with Personalized Support Option	H1K95A3 + H4B58A3#001
3yr HP Proactive Care 6hr CTR w/DMR	H1K95A3
5yr HP Proactive Care 24x7 with Personalized Support Option	H1K92A5 + H4B58A5#001

### How to Order

5yr HP Proactive Care 24x7	H1K92A5
3yr HP Proactive Care 24x7 with Personalized Support Option	H1K92A3 + H4B58A3#001
3yr HP Proactive Care 24x7	H1K92A3
5yr HP Proactive Care 24x7 w/DMR with Personalized Support Option	H1K93A5 + H4B58A5#001
5yr HP Proactive Care 24x7 w/DMR	H1K93A5
3yr HP Proactive Care 24x7 w/DMR with Personalized Support Option	H1K93A3 + H4B58A3#001
3yr HP Proactive Care 24x7 w/DMR	H1K93A3
<b>HP Critical Service - 3yr or 5yr</b>	

**HP Critical Service:** Prevent downtime and maximize availability using ITIL best practices for your mission-critical applications. Our mission-critical services keep your solution available 24x7. Our call to repair reactive support with access to the Global Mission Critical Solution Center enables quick resolution whenever unforeseeable problems occur.

5yr HP Critical Service	HA112A5
5yr HP Critical Service with DMR	HG932A5
3yr HP Critical Service	HA112A3
3yr HP Critical Service with DMR	HG932A3

#### **HP Proactive Select - 3yr or 5yr**

**NOTE:** Proactive Select can be added to other support offers to provide an assigned account support manager focused on technical and operational improvements specific to your business environment.

**NOTE:** With HP Proactive Select, you purchase credits that can be applied to any proactive service from our extensive menu that spans the entire lifecycle of your IT environment. For example, help with implementing a new technology, or proactive notification of critical network service problems.

**NOTE:** Available in packages of service credits, redeem them as you go, choosing the proactive services you need to fit your environment and critical IT and business goals.

**NOTE:** Care Pack Services for different duration and credit sizes are listed below.

HP 3Y Proactive Select 30 credits SVC	HK696A3
HP 3Y Proactive Select 90 credits SVC	HG921A3
HP 3Y Proactive Select 180 credits SVC	HG922A3
HP 3Y Proactive Select 540 credits SVC	HG923A3
HP 3Y Add 10 Proactive Select Credit SVC	HG924A3
HP 5Y Proactive Select 50 credits SVC	HK696A5
HP 5Y Proactive Select 150 credits SVC	HG921A5
HP 5Y Proactive Select 300 credits SVC	HG922A5
HP 5Y Proactive Select 900 credits SVC	HG923A5
HP 5Y Add 10 Proactive Select Credit SVC	HG924A5

### How to Order

#### **Step 3: Choose Recommended Additions**

The following additions are available for HP ConvergedSystem 700 for Virtualization after initial installation to ready the system for private cloud deployment or further enhance manageability or disaster recovery. For integration services, please contact HP TS Consulting.

HP Matrix Operating Environment SW w/o Insight Control Flexible Quantity incl 1yr 24x7 Support

BD853B

**NOTE:** For a full list of software available for use on your HP ConvergedSystem 700 for Virtualization for VMware please see the Virtualization Software For HP ProLiant Servers Quickspecs:

[http://h18004.www1.hp.com/products/quickspecs/12307\\_div/12307\\_div.html](http://h18004.www1.hp.com/products/quickspecs/12307_div/12307_div.html)

### Technical Specifications

<b>HP ConvergedSystem 700 for Virtualization</b>	<b>Dimensions HP i-Series Shock Rack</b>	Height	42U, 78.82 in (200.2 cm)		
		Width	23.54 in (59.8 cm)		
		Depth	42.74 in (108.6 cm)		
	<b>Weight*</b> (approximate for maximum rack configuration)	Single rack (contains compute and storage)	Static	1,910.63 lb (866.34kg)	
			Dynamic Maximum	2500 lb (1133.98 kg)	
	<b>Color</b>	Doors	Graphite Metallic		
		Frame	Carbon		
	<b>Clearance</b> (for air flow and access)	Front	48 in (121.9 cm)		
		Rear	30 in (76.2 cm)		
		Non-Operating	-22° to 140° F (-30° to 60° C)		
	<b>Relative humidity</b>	Operating	15 to 85% 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.		
<b>Power Usage* - maximum</b>	Single Rack	13,650.70 watts (at 250V)			
<b>BTU rating*, maximum</b>	Single Rack	46,560.28 BTU/hour			

\*

**NOTE:** Operating temperature has an altitude derating of 1.8° F (1° C) per 1,000 ft (304.8 m). No direct sustained sunlight. Upper operating limit is 10,000 ft (3,048 m) or 70Kpa/10.1 psia. Upper non-operating limit is 30,000 ft (9,144 m) or 30.3 KPa/4.4 psia.

**NOTE:** To review maximum server system power ratings for facilities planning purposes use the HP Power Advisor at: <http://www.hp.com/go/hppoweradvisor>.

<b>Environmental-friendly products and approach</b>	<b>End-of-life management and recycling</b>	Hewlett-Packard offers end-of-life HP product return, trade-in, and recycling programs in many geographic areas. For trade-in information, please go to: <a href="http://www.hp.com/go/green">http://www.hp.com/go/green</a> . To recycle your product, please go to: <a href="http://www.hp.com/go/green">http://www.hp.com/go/green</a> or contact your nearest HP sales office. Products returned to HP 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 web site at: <a href="http://www.hp.com/go/green">http://www.hp.com/go/green</a> . These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

### Technical Specifications

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