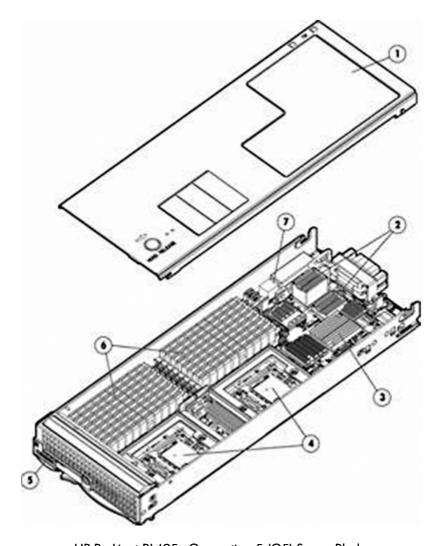
### Overview



### HP ProLiant BL495c Generation 5 (G5) Server Blade

- 1. Access panel
- 2. Two (2) mezzanine I/O expansion slots
- 3. Embedded dual port Flex-10 10GbE multifunction server adapter
- 5. Local I/O connector
  - 6. Sixteen (16) PC2-5300 Registered DIMM (DDR2-667) or PC2-6400 Registered DIMM (DDR2-800) memory slots
  - 7. Internal USB connector
- 4. Up to two (2) AMD Opteron<sup>™</sup> 2300 Series processors

### What's New

• Support for HP NC550m 10GbE 2-port PCIe x8 Flex-10 Ethernet Adapter

### At A Glance

This document covers the HP ProLiant BL495c G5 server blade only. For more information on HP BladeSystem c-Class Infrastructure



#### Overview

and HP BladeSystem c-Class Interconnect and Mezzanine Components, please see the following QuickSpecs:

- HP BladeSystem c3000 Enclosure QuickSpecs: http://h18000.www1.hp.com/products/quickspecs/12790\_div/12790\_div.html
- HP BladeSystem c7000 Enclosure QuickSpecs: http://h18000.www1.hp.com/products/quickspecs/12810\_div/12810\_div.html
- HP BladeSystem c-Class Interconnect and Mezzanine Components: http://h18004.www1.hp.com/products/blades/components/c-class-interconnects.html http://h18004.www1.hp.com/products/blades/components/c-class-adapters.html

The HP ProLiant BL495c G5 Server Blade virtualization blade eliminates the performance bottlenecks of a virtual machine host. Engineered with more memory and I/O than any other half-height blade server, this world's first virtualization blade maximizes the number and performance of VMs that you can deploy per blade.

HP ProLiant BL495c G5 server blade includes:

- Processor:
  - O Up to two (2) Quad-Core AMD Opteron™ 2300 series processors
  - O Supports up to 2.9 GHz, 2.2 GHz HyperTransport<sup>™</sup>; 512 KB Level 2 cache memory per core; 6 MB Level 3 cache
  - O Supports up to 2.3 GHz, 1 GHz HyperTransport<sup>™</sup>; 512 KB Level 2 cache memory per core; 2 MB Level 3 cache
  - O Dual-Link AMD HyperTransport connection between processors for maximum performance
  - O AMD Dual Dynamic Power Management<sup>™</sup> for optimum performance and reduced power consumption
  - O ServerWorks HT-1000 and HT-2100 chipsets
- Memory:
  - Up to 128 GB of memory, supported by sixteen (16) slots of PC2-5300 Registered DIMMs at 667MHz or 64GB of memory, supported by sixteen (16) slots of PC2-6400 Registered DIMMs at 800MHz
  - Supporting memory interleaving (2:1)
     NOTE: The memory bus will operate at 800 MHz with four (4) or fewer DIMMs per processor, 667 MHz with six (6)
     DIMMs per processor, and 533 MHz with eight (8) DIMMs per processor.
- Storage Controller:
  - O HP Embedded SATA Controller

**NOTE:** RAID functionality requires the use of an optional Smart Array mezzanine card. See the Storage Controller options section below.

- Internal Drive Support:
  - O Up to two (2) non-hot plug SATA Solid State Drives (SSD)
  - O With an attached SB40c Storage Blade, up to six (6) hot plug SFF Serial Attached SCSI (SAS) or SATA Hard Drives (optional)
- Network Controller:
  - O Embedded NC532i Dual Port Flex-10 10GbE Multifunction Server Adapter

**NOTE:** Flex-10 capability requires the use of an HP Virtual Connect Flex-10 10Gb Ethernet module. Learn more at: www.hp.com/go/virtualconnect.

**NOTE:** Each port is autosensing 1Gb/10Gb, and can interoperate with 1Gb HP BladeSystem c-Class interconnect components.

O One (1) additional 10/100 server adapter dedicated to iLO 2 Management

#### • Mezzanine Support:

- o Two (2) I/O expansion mezzanine slots
- O Supports up to two (2) mezzanine cards
  - Dual-Port Fibre Channel Mezzanine (4-Gb or 8-Gb) options for SAN connectivity
  - iSCSI Ethernet mezzanine option for optimized iSCSI connectivity
  - Ethernet server adapter mezzanine options for additional network ports
  - 4X DDR InfiniBand (IB) Mezzanine (20 Gb/s) options for low latency server interconnectivity (based on Mellanox technology)



#### Overview

I/O Accelerator mezzanine options for high transaction rate local storage

- Internal USB Support:
  - O One (1) internal USB 2.0 connector for security key devices and USB drive keys
- Form Factor:
  - O HP ProLiant BL495c G5 server blade plugs into the BladeSystem c3000 and c7000 enclosures
- Infrastructure Management:
  - This server blade requires 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: http://h18004.www1.hp.com/products/blades/components/c-class-compmatrix.html
  - O HP Integrated Lights-Out 2 (iLO 2) management processor for simplified server setup, health monitoring and recovery, power and thermal control, and lights-out remote administration.
  - HP Insight Control, a product option, delivers essential infrastructure management that can help save time and money by making it easy to deploy, migrate, monitor, control and optimize your IT infrastructure through a single, simple management console. Insight Control supports both Windows and Linux-based central management servers.
  - O HP Insight Dynamics for ProLiant, a product option, is an integrated command center that enables IT Staff personnel to continuously analyze and optimize a converged infrastructure, while automating and reducing the cost of common data center tasks by as much as 40 percent. This ultimately enables them to dynamically keep pace with the organization's changing business requirements.
- Operating Systems and Virtualization Software:
  - O Supports Windows, RHEL, SLES, OEL, VMware ESX, Citrix XenServer
- Enclosures:
  - O HP offers three different c-Class server blade enclosures to meet your individual needs:
    - The HP BladeSystem c7000 rack enclosure is 10U high and holds up to sixteen (16) ProLiant BL495c G5 servers plugged vertically.
    - The HP BladeSystem c3000 rack enclosure is 6U high and holds up to eight (8) HP ProLiant BL495c G5 servers plugged horizontally.
    - The HP BladeSystem c3000 tower enclosure is designed with casters for sites without racks and holds up to eight (8) HP ProLiant BL495c G5 servers plugged vertically.
  - O Server blades, storage blades, and interconnect modules are all designed to fit into the c7000 and c3000 enclosures.
  - O For additional enclosure information, please see

http://h18004.www1.hp.com/products/blades/components/enclosures/c-class/index.html.

- Warranty:
  - This product is covered by a global limited warranty and supported by HP Services and a worldwide network of HP 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 for 90 days from date of purchase. Enhancements to warranty services are available through HP Care Pack services or customized service agreements. Hard drives have either a one year or three year warrant; refer to the specific hard drive QuickSpecs for details.

**NOTE:** Server warranty includes 3-year Parts, 3- year Labor, 3-year on-site support. 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



### Standard Features

Processor	Quad-Core Processors
	AMD Opteron™ processor Model 2389 (2.9 GHz, 6 MB L3 Cache, 75W ACP)
	AMD Opteron processor Model 2387 (2.8 GHz, 6 MB L3 Cache, 75W ACP) NOTE: Offered through Configure-To-Order process only. See Factory Integration Models section for more details.
	AMD Opteron processor Model 2384 (2.7 GHz, 6 MB L3 Cache, 75W ACP)
	AMD Opteron processor Model 2382 (2.6 GHz, 6 MB L3 Cache, 75W ACP) NOTE: Offered through Configure-To-Order process only. See Factory Integration Models section for more details.
	AMD Opteron processor Model 2378 (2.4 GHz, 6 MB L3 Cache, 75W ACP)
	AMD Opteron processor Model 2356 (2.3 GHz, 2 MB L3 Cache, 75W ACP)
	AMD Opteron processor Model 2352 (2.1 GHz, 2 MB L3 Cache, 75W ACP)
	Low Power AMD Opteron processor Model 2381 HE (2.5 GHz, 6 MB L3 Cache, 55W ACP) NOTE: Offered through Configure-To-Order process only. See Factory Integration Models section for more details.
	Low Power AMD Opteron processor Model 2376 HE (2.3 GHz, 6 MB L3 Cache, 55W ACP) NOTE: Offered through Configure-To-Order process only. See Factory Integration Models section for more details.
	Low Power AMD Opteron processor Model 2347 HE (1.9 GHz, 2 MB L3 Cache, 55W ACP)
	NOTE: AMD Opteron 2300 series processors are 64-bit, quad-core, and support AMD Virtualization™. NOTE: Processor wattage references reflect Average CPU Power (ACP). For more information on ACP visit: http://www.amd.com/powernow.
Upgradeability	Upgradeable to dual (2) processors
Cache Memory	512 KB Level 2 cache memory per core
	2 MB or 6 MB Level 3 cache memory
Chipset	ServerWorks HT-1000 and HT-2100





### Standard Features

Memory	Туре		tered DIMMs at 667 MHz tered DIMMs at 800MHz
	Standard	4 GB (2 x 2 GB)	
	Maximum	128 GB (16 x 8 GB) at	533 MHz
	HE, 2378, 2381 HE, 238 NOTE: PC2-5300 DDR2 Models 2347 HE, 2352, 2427, and 2435. NOTE: PC2-5300 DDR2 Opteron processor Mode NOTE: The memory bus	DIMMs are only supporte 2, 2384, 2387, 2389, 2 DIMMs in 8 GB capacitie 2356, 2376 HE, 2378, 2 DIMMs in 1 GB, 2 GB, a Is 2347 HE, 2352, and 2 will operate at 800 MHz v	ed with the AMD Opteron processor Models 2376 425 HE, 2427, and 2435. es are supported with the AMD Opteron processor 381 HE, 2382, 2384, 2387, 2389, 2425 HE, and 4 GB capacities are only supported with the AMD 356. with four (4) or fewer DIMMs per processor, 667 MHz th eight (8) DIMMs per processor.
Network Controller	Learn more at: www.hp.co NOTE: The iSCSI offload iSCSI Pack. For more info	requires the use of an HF om/go/virtualconnect. feature of the embedded rmation, please see the G com/products/quickspecs	P Virtual Connect Flex-10 10Gb Ethernet module. multifunction adapter requires the HP Accelerated QuickSpecs at: /12466_div/12466_div.html
I/O Expansion Slots	Two (2) I/O expansion me	ezzanine slots (One x8 and	d one x4 PCI Express)
Integrated Manageability	HP Integrated Lights-Out	2 (iLO 2) management pr	ocessor
Storage Controller		requires the use of an op	on-hot plug SATA SDD only) tional Smart Array mezzanine card. See the Storage
Maximum Internal Storage	Non-Hot Plug SATA (SATA) SSD	128GB	2 x 64GB SATA SSD
-	Hot Plug SFF SAS (with optional SB40c Storage Blade attached)	1.8TB	6 x 300GB Hot Plug SAS
Graphics	Integrated ATI RN-50 128	30 x 1024 x 16M color (3	2 MB DDR1 memory)



### Standard Features

Resolution Color Depths	1280 x 1024, 16.7M, 64k, 256.16 1024 x 768, 16.7M, 64k, 256, 16 800 x 600, 16,7M, 64k, 256, 16 640 x 480, 16,7M, 64k, 256, 16
mezzanine circuit board co	t Fibre Channel HBAs are supported by the HP ProLiant BL495c G5. Each onnects directly to the server blade system board. These Fibre Channel HBAs its and must be ordered separately.
HBA mezzanine card optic	on kits:
Emulex LPe1105 4Gb Fib	re Channel Host Bus Adapter for c-Class BladeSystem (PN 403621-B21)
	field-proven ASIC, firmware, and driver technology as Emulex's renowned Emulex LPe1105-HP is fully driver compatible with all Emulex HBAs
QLogic QMH2462 4Gb I	Fibre Channel Host Bus Adapter for c-Class BladeSystem (PN 403619-B21)
	ers which means that customers can standardize on one QLogic driver whether QMH2462 or other HBAs powered by QLogic
Emulex and QLogic Fibre	Channel HBAs for HP BladeSystem c-Class feature:
<ul> <li>4/2/1Gb/s auto ne</li> <li>Dual-ports for redutive</li> <li>Up to two FC HBAs</li> <li>Optimized for HP State</li> </ul>	ice utilizing PCI Express gotiating speeds (4Gb HBAs) ndant path connections s per server blade providing redundant FC HBA support torageWorks and supported by third party SAN vendors oft® Windows® and Linux operating system environments
HP ProLiant BL495c G5 se storage page for more de	erver blades are optimized for HP StorageWorks MSA, EVA, and XP erver blades are compatible with select 3rd party SANs (please see blade tails: com/products/blades/components/c-class-sans.html)
10 technology makes max single Industry Standard correquirements. HP Virtual C connections and workload	fies server connectivity to LANs and SANs, and reduces costs. Unique HP Flex- kimum use of 10Gb Ethernet bandwidth by allowing multiple ports within a onnection that can be dynamically tuned to meet individual server Connect Enterprise Manager (VCEM) provides a central console to administer ds for thousands of servers. For more information on Virtual Connect Ethernet, gement options see: www.hp.com/go/virtualconnect
HP Insight Foundation	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.
	HP provides management solutions that are designed to simplify a server's
-	Two (2) optional dual-por mezzanine circuit board c are available via option ki HBA mezzanine card optio Emulex LPe1105 4Gb Fib Based on the same LPe1150 HBA, the QLogic QMH2462 4Gb Uses common drive they are using the Q Emulex and QLogic Fibre Optimal performan 4/2/1Gb/s auto ne Dual-ports for redu Up to two FC HBAs Optimized for HP S Support for Microso HP ProLiant BL495c G5 s HP ProLiant BL495c G5 s storage page for more de http://h18004.www1.hp.q HP Virtual Connect simpli 10 technology makes max single Industry Standard c requirements. HP Virtual Q connections and workload Fibre Channel and manag

Standard Features

lifecycle. This provides the customer with higher levels of operational efficiency and highly reliable systems: www.hp.com/go/foundation.

The foundation pack includes:

	<ul> <li>HP Management DVD</li> <li>HP ProLiant Smart Update Firmware DVD</li> <li>SmartStart version supported (minimum): SmartStart 8.1. http://www.hp.com/servers/smartstart</li> </ul>
	<b>NOTE:</b> In an effort to support reducing our environmental impact, the HP Insight Foundation Suite for ProLiant media will be available as a selectable option for this server at time of order of a CTO SKU. This will allow customers to order the number of media kits that best meet their needs and eliminate receiving unnecessary duplicate media.
HP Integrated Lights-Out (iLO)	HP 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. HP iLO functions without additional software and can be accessed from any location via a web browser. HP iLO works hand- in-hand with HP Systems Insight Manager, Insight Control suites, 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: www.hp.com/go/iLO
HP Insight Control	HP 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.
	Two versions of Insight Control are available, to serve environments requiring either a Linux-based or a Windows-based central management server: HP Insight Control for Linux, and HP Insight Control. See www.hp.com/go/insightcontrol
	HP Insight Control includes one year of 24 x 7 HP Software Technical Support and Update Service ensuring rapid access to HP support staff and proactive delivery of software updates. For more information about this service, please visit: http://www.hp.com/services/insight.
HP Insight Dynamics for ProLiant	HP Insight Dynamics for ProLiant, a product option, is an integrated command center that enables IT Staff personnel to continuously analyze and optimize a converged infrastructure, while automating and reducing the cost of common data center tasks by as much as 40 percent. As a powerfully integrated by design toolkit to accelerate complex technology projects and simplify daily operations that ultimately enable IT Staff personnel to dynamically keep pace with the organizations changing business requirements. It enables them to plan capacity and power continuously, balance across physical and virtual resources, and ensure cost-effective high availability. It also enables IT organizations to provision infrastructure consistently and automatically from pools of shared resources using a self- service portal. Resources provisioned can range from a single virtual machine to complex multi-tier environments and their associated physical and virtual resource requirements. In addition to the previous functional



Standard Features		
		benefits, it also provides a cost-effective disaster recovery for physical and virtual environments that works with HP StorageWorks Continuous Access software for both the Enterprise Virtual Array and the XP storage array allowing application environments to be reactivated in minutes with the touch of a button to a remote location.
		NOTE: For more information, visit: http://www.hp.com/go/insightdynamics
High Performance Clusters	HP Cluster Platforms	HP Cluster Platforms are specifically engineered, factory-integrated large- scale ProLiant clusters optimized for High Performance Computing, with a choice of servers, networks and software. Operating system options include specially priced offerings for Red Hat Enterprise Linux and Novell SLES, as well as Microsoft Windows HPC Server. A Cluster Platform Configurator simplifies ordering. http://www.hp.com/go/clusters
	HP HPC Interconnects	High Performance Computing (HPC) interconnect technologies are available for this server as part of the HP Cluster Platform portfolio. These high-speed InfiniBand and Gigabit interconnects are fully supported by HP when integrated within an HP cluster. Flexible, validated solutions can be defined with the help of configuration tools. http://www.hp.com/techservers/clusters/ucp/index.html
	HP Cluster Management Utility	HP Cluster Management Utility (CMU) is an HP-licensed and HP-supported suite of tools that are used to manage large-scale Linux ProLiant systems. CMU includes software for the centralized provisioning, management and monitoring of nodes. CMU makes the administration of clusters user friendly, efficient, and effective. http://www.hp.com/go/cmu
	HP HPC Linux Value Pack	HP HPC Linux Value Pack (Value Pack) is an HP-licensed and HP-supported specially priced software bundle for the development and deployment of applications on HPC Cluster Platforms. Value Pack includes the Platform LSF workload scheduler, the HP-MPI parallelization library, the HP Unified Parallel C compiler and the HP Shmem library, as well as the execution environments for the libraries and compiler. HP HPC Linux Value Pack

### Operating Systems and Virtualization Software

Microsoft Windows Server Microsoft Windows Server Hyper-V Red Hat Enterprise Linux (RHEL) SUSE Linux Enterprise Server (SLES) Oracle Enterprise Linux (OEL) VMware ESX Citrix XenServer

**NOTE:** For more information on HP's Certified and Supported ProLiant Servers for OS and Virtualization Software and latest listing of software drivers available for your server, including how to purchase from HP, please visit our OS Support Site at: http://www.hp.com/go/supportos and our driver download page http://www.hp.com/support/BL495cG5



Standard Features	
Availability	Dual-Port Fibre Channel Mezzanine Card for redundant SAN connection Dual- and Quad-Port server adapter for redundant LAN connections Redundant ROM on each server blade Multiple mezzanine I/O expansion ECC Memory Network adapter teaming (network fault tolerance, transmit load balancing, switch-assisted load balancing)
Industry Standard Compliance	ACPI 2.0 Compliant PCI 2.2 Compliant Microsoft® Logo certifications USB 2.0 Support
Security	Power-on password Administrator's password Integrated Lights-Out 2 has 12 customizable user accounts and SSL encryption Integrated Lights-Out 2 can be disabled via a Global Setting
Factory Express Portfolio for Servers and Storage	HP Factory Express offers configuration, customization, integration and deployment services for HP 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. HP products supported through Factory Express include a wide array of servers and storage: HP Integrity, HP ProLiant, HP ProLiant Server Blades, HP BladeSystem, HP 9000 servers as well as the MSAxxxx, VA7xxx, EVA, XP, rackable tape libraries and configurable network switches.
	For more information on Factory Express services on your specific server model please contact your sales representative or go to: http://www.hp.com/go/factory-express.
HP Enterprise Configurator	The HP eConfigure Enterprise Configurator now provides factory default racking for our HP hardware portfolio. This approach is aligned with our strategic direction to meet the needs and expectations of our valued customers. If you require "custom" rack configuration, please contact HP's Customer Business Center or an Authorized Partner for assistance. http://www.hp.com/products/configurator.



### Service and Support

#### Service and Support

## HP Care Pack Services: Packaged server and storage services for increased uptime, productivity and ROI

When you buy HP server and storage products and solutions, it's also a good time to think about what levels of support you may need. Our portfolio of service options reduce deployment and management worries while helping you get the most out of your server and storage investments. We take a holistic approach to your environment, bridging servers, blades, storage, software and network infrastructures with our packaged HP Care Pack Services for servers and storage.

#### Protect your business beyond warranty

When it comes to robustness and reliability, standard computing equipment warranties have matured along with technology. Good news that can also create problems stemming from depending on standard warranties designed to only protect against product defects and some downtime causes. Using a standard approach to warranty uplifts, such as HP Care Pack Services, helps reduce downtime risks and provides operational consistency for mission-critical and standard business computing.

## HP Care Pack Services: Upgrading or extending standard server and storage warranties cost effectively

HP Care Pack Services offer a standard reactive hardware and software support services suite sold separately, or combined with our Support Plus and Support Plus 24 services. The portfolio also provides a combination of integrated proactive and reactive services, such as Proactive 24 Service and Critical Service. In addition with HP Proactive Select, you can acquire the specific proactive constancy and technical services. HP Proactive Select menu offers a broad set of service options that you can mix and match depending on your specific requirements. Proactive service options include offers for server, storage, network, SAN device, software, environment and education services.

HP server and storage lifecycle support services offers a full spectrum of customer care-from technology support to complex migrations to complete managed services. HP Factory Express provides customization, integration and deployment services for turnkey solutions. HP Education Services offer flexible, comprehensive training on to help your IT staff get the most out of your server and storage investments. HP Financial solutions extend innovative financing and cost-effective asset management programs-from purchase to equipment retirement.

Learn more: www.hp.com/services/servers and www.hp.com/services/storage

NOTE: Care Pack Services availability may vary by product and country.

HP Care Pack Services are sold by HP and HP Authorized Service Partners:

- Services for customers purchasing from HP or an enterprise reseller are quoted using HP order configuration tools.
- Customers purchasing from a commercial reseller can find HP Care Pack Services at http://www.hp.com/go/lookuptool



### Service and Support

### Recommended HP Care Pack Services for optimal satisfaction with your HP product

Recommended Services

### 3-Year HP Hardware Support Onsite Call-to-Repair (CTR) Service, 6- or 24-hour

Provides your IT manager with a team of support specialists who will quickly begin troubleshooting the system to help return the hardware to operating condition within 6 or 24 hours of the initial service request to the HP Global Solution Center.

HP is committed to repairing your hardware within a maximum of six or twenty four hours. The benefits include:

- Improved system uptime
- Predictable repair times
- More effective IT resource planning
- Consistent level of hardware support across your multi-technology systems

#### http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-6636ENN

#### 3-Year HP Hardware Support Onsite Service, 4-hour response, 24x7

Provides you with rapid remote support and if required an HP authorized representative who will arrive on site any time and day of the year to begin hardware maintenance service within 4 hours of the service request being logged.

This service provides a trained HP service specialist to perform an installation that meets HP quality standards, for:

- Help improve or maintain system uptime
- Convenient onsite support
- Committed response time

#### http://h20195.www2.hp.com/V2/GetPDF.aspx/5982-6547EEE

#### HP ProLiant Server Hardware Installation

Provides for the basic hardware installation of HP branded servers, storage devices and networking options to assist you in bringing your new hardware into operation in a timely and professional manner.

- Expedited installation, with all service prerequisites met before the installation is performed
- Installation in accordance with manufacturer's specifications, enhancing the supportability of your HP-installed hardware and software
- Service delivery at a mutually scheduled time
- Allows your IT resources to stay focused on their core tasks and priorities
- Availability of an HP service specialist to answer questions during the onsite delivery of this service

#### http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-9356EN



### Service and Support

### Optional HP Care Pack Services that will enhance your HP product experience

**Optional Services** 

#### HP Enhanced Network Installation & Startup for BladeSystem Switches

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

#### http://h20195.www2.hp.com/V2/GetPDF.aspx/4aa0-5969ENW

#### 3-Year HP Proactive 24

As an alternative to our recommended support level, for customers who want enhanced operational effectiveness and proactive problem identification:

Provides improved stability, availability and operational effectiveness with an integrated hardware and software support service that combines industry-leading reactive technical assistance with proactive account services, giving your IT manage support from a team of service specialists.

#### http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA0-1614ENUC

#### **HP** Proactive Select Service

Customer needs on demand access to consulting, technical proactive services and education courses

Provides a flexible way to purchase HP 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.

#### http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA2-3842ENN

eSupport HP eSupport is a portfolio of technology-based services that assist you with managing your business environment - from the desktop to the data center.

#### Support Portal

The HP support portal provides one-stop access to the information, tools and services you need to manage the daily operations of your IT environment.

#### Features include:

- Access to self-solve tools (including search technical knowledge base)
- Efficient logging and tracking of support cases
- Collaboration with other business and IT professionals
- Download of patches and drivers
- Access to diagnostic tools
- Proactive notification of relevant information

Access to certain features of the support portal requires an HP service agreement. To access the support portal, visit: http://www.hp.com/support

HP Insight Remote Support software delivers secure remote support for your HP Servers and Storage, 24 X 7, so you can spend less time solving problems and more time focused on your business. You can have your systems remotely monitored for hardware failure using secure technology that's been proven at thousands of companies around the world. In many cases, you can avoid problems before they occur.



Service and Support

Customer Technical Training	In today's cost-conscious business environment, IT professionals, developers, consultants and users face an interesting challenge: how to keep up with the latest technologies and expand important skills while delivering profitable results on current projects. To help address this challenge, HP offers innovative training solutions that help keep you up-to-date on virtualization, server, storage, Insight Control, Citrix, Microsoft® and open source/Linux-related topics-while spending less time away from business-critical activities.
HP Services Awards	HP Technology Services continues to be recognized for service and support excellence by customers, partners, industry organizations and publications around the world. Recent honors and award reflect our services team's dedications, technical expertise, professionalism and uncompromising commitment to customer satisfaction.
Additional Services Information	To learn more on HP ProLiant servers, HP BladeSystem servers and HP StorageWorks storage products, please contact your HP sales representative or HP Authorized Channel Partner. Or visit: www.hp.com/services/proliant or www.hp.com/services/bladesystem or http://www.hp.com/hps/storage



### Models

NOTE: Not all models are available in all regions. Check with your local country HP offices for availability.

### **Quad-Core Models**

HP ProLiant BL495c G5 2389 QC, 4G (1P) 519237-B21	<b>Processor(s)</b> One of the following depending on model	<ol> <li>(1) AMD Opteron<sup>™</sup> processor Model 2389 (2.9 GHz)</li> <li>(1) AMD Opteron processor Model 2384 (2.7 GHz)</li> <li>(1) AMD Opteron processor Model 2378 (2.4 GHz)</li> </ol>
HP ProLiant BL495c G5	Cache Memory	512 KB Level 2 cache memory per core 6 MB Level 3 cache memory
<b>2384 QC, 4GB (1P)</b> 500041-B21	Memory	4 GB (2 x 2 GB) PC2-6400, Registered DDR2-800
HP ProLiant BL495c G5 2378 QC, 4GB (1P)	Network Adapter	Embedded NC532i Dual Port Flex-10 10GbE Multifunction Server Adapter and one (1) additional 10/100 server adapter dedicated to iLO 2 management
505638-B21	Storage Controller	HP Embedded SATA Controller
	Hard Drives	No drives included; (2) Non-Hot Plug SSD internal drive bays
	Internal Storage	Up to 128GB SATA SSD
	Optical Drive	None
	Form Factor	Up to eight (8) half-height blades supported in the HP BladeSystem c3000 Enclosure Up to sixteen (16) half-height blades supported in HP BladeSystem c7000 Enclosure



### Configuration Information - Factory Integrated Models

NOTE: This section lists some of the steps required to configure a Factory Integrated Model. To ensure only valid configurations are ordered, HP recommends the use of an HP approved configurator. Contact your local sales representative for information on CTO product offerings and requirements. NOTE: HP does not allow factory integration of options into standard models listed above. Configure-to-order servers must start with a CTO Chassis. NOTE: FIO indicates that this option is a factory installable option.		
Step 1: Base Serv	er Blade Configuration	
HP Models	HP ProLiant BL495c G5 Configure-to-order Blade	454314-B21
	Configurable Model ships with:	
	Embedded NC532i Dual Port Flex-10 10GbE Multifunction Server Adapter and one (1) additional 10/100 server adapter dedicated to iLO 2 management	
	HP Embedded SATA Controller	
	Two (2) non-hot plug internal SATA SSD drive bays	
	HP Integrated Lights-Out 2 management processor	

## Step 2: Choose Required Options (one of the following from each list unless otherwise noted):

MD Opteron™ 2389 2.90GHz Quad Core 75 Watts BL495c G5 Factory Integrated ocessor Option Kit	519238-L21
	532314-L21
	500042-L21
	500044-L21
	505639-L21
· · · · · · · · · · · · · · · · · · ·	519240-L21
	508872-L21
OTE: Compatible with the AMD Opteron processor Models 2376 HE, 2378, 2381	497763-B21
	483401-B21
OTE: Compatible with the AMD Opteron processor Models 2376 HE, 2378, 2381	497765-B21
	MD Opteron <sup>™</sup> 2389 2.90GHz Quad Core 75 Watts BL495c G5 Factory Integrated ocessor Option Kit MD Opteron <sup>™</sup> 2387 2.80GHz Quad Core 75 Watts BL495c G5 Factory Integrated ocessor Option Kit MD Opteron <sup>™</sup> 2384 2.7GHz Quad Core 6MB BL495c G5 Factory Integrated ocessor Option Kit MD Opteron <sup>™</sup> 2382 2.6GHz Quad Core 6MB BL495c G5 Factory Integrated ocessor Option Kit MD Opteron <sup>™</sup> 2378 2.4GHz Quad Core 6MB BL495c G5 Factory Integrated ocessor Option Kit MD Opteron <sup>™</sup> 2378 2.4GHz Quad Core 6MB BL495c G5 Factory Integrated ocessor Option Kit MD Opteron <sup>™</sup> 2381HE 2.50GHz Quad Core 55 Watts BL495c G5 Factory tegrated Processor Option Kit MD Opteron <sup>™</sup> 2376HE 2.3GHz Quad Core 55W BL495c G5 Factory Integrated ocessor Option Kit P 2GB (2x1GB) Single Rank PC2-6400 (DDR2-800) Registered Memory Kit OTE: Compatible with the AMD Opteron processor Models 2376 HE, 2378, 2381 E, 2382, 2384, 2387, 2389, 2425 HE, 2427, and 2435. P 4GB (2x2GB) Single Rank PC2-5300 (DDR2-667) Registered Low Power Memory t OTE: Compatible with the AMD Opteron processor Models 2347 HE, 2352, and 356. P 4GB (2x2GB) Single Rank PC2-6400 (DDR2-800) Registered Memory Kit OTE: Compatible with the AMD Opteron processor Models 2347 HE, 2352, and 356. P 4GB (2x2GB) Single Rank PC2-6400 (DDR2-800) Registered Memory Kit OTE: Compatible with the AMD Opteron processor Models 2376 HE, 2378, 2381 E, 2382, 2384, 2387, 2389, 2425 HE, 2427, and 2435.



### Configuration Information - Factory Integrated Models

HP 8GB (2x4GB) Dual Rank PC2-5300 (DDR2-667) Registered Memory Kit NOTE: Compatible with the AMD Opteron processor Models 2347 HE, 2352, and 2356.	408854-B21
HP 8GB (2x4GB) Dual Rank PC2-5300 (DDR2-667) Registered Low Power Memory Kit	483403-B21
<b>NOTE:</b> Compatible with the AMD Opteron processor Models 2347 HE, 2352, and 2356.	
HP 8GB (2x4GB) Dual Rank PC2-6400 (DDR2-800) Registered Memory Kit NOTE: Compatible with the AMD Opteron processor Models 2376 HE, 2378, 2381 HE, 2382, 2384, 2387, 2389, 2425 HE, 2427, and 2435.	497767-B21
HP 8GB (2x4GB) Dual Rank x4 PC2-6400 (DDR2-800) Registered Low Power Memory Kit NOTE: Compatible with the AMD Opteron processor Models 2376 HE, 2378, 2381	504351-B21
HE, 2382, 2384, 2387, 2389, 2425 HE, 2427, and 2435.	
HP 16GB (2x8GB) Dual Rank PC2-5300 (DDR2-667) Registered Memory Kit NOTE: Compatible with the AMD Opteron processor Models 2347 HE, 2352, 2356, 2376 HE, 2378, 2381 HE, 2382, 2384, 2387, 2389, 2425 HE, 2427, and 2435.	408855-B21
HP 64GB (8x8GB) Dual Rank PC2-5300 (DDR2-667) Registered Memory Kit NOTE: Compatible with the AMD Opteron processor Models 2347 HE, 2352, 2356, 2376 HE, 2378, 2381 HE, 2382, 2384, 2387, 2389, 2425 HE, 2427, and 2435.	495605-B21
NOTE: Must be installed in pairs. NOTE: The memory bus will operate at 800 MHz with four (4) or fewer DIMMs per processor, 667 MHz with six (6) DIMMs per processor, and 533 MHz with eight (8) DIMMs per processor.	

### Step 3: Choose Additional Options for Factory Integration

**NOTE:** For additional "Core Options and Additional Options" please see the options sections below. For additional options, including server blade enclosures interconnect and mezzanine options and power subsystem options; please see the following: HP BladeSystem c-Class Infrastructure QuickSpecs:

HP BladeSystem c3000 Enclosure QuickSpecs:

http://h18000.www1.hp.com/products/quickspecs/12790\_div/12790\_div.html

HP BladeSystem c7000 Enclosure QuickSpecs:

http://h18000.www1.hp.com/products/quickspecs/12810\_div/12810\_div.html

and HP BladeSystem c-Class Interconnect and Mezzanine Components:

http://h18004.www1.hp.com/products/blades/components/c-class-interconnects.html

http://h18004.www1.hp.com/products/blades/components/c-class-adapters.html



### Core Options

of an HP approved. HP Ethernet Mezzanine	Gigabit Ethernet Mezzanines	
Options	HP NC325m PCI Express Quad Port 1Gb Server Adapter for c-Class BladeSystem NOTE: If the NC325m is installed in mezzanine slot 1 of a half-height server, connectivity will be provided on only 2 of the 4 ports.	416585-B21
	HP NC326m PCI Express Dual Port 1Gb Server Adapter for c-Class BladeSystem	406771-B21
	HP NC360m Dual Port 1GbE BL-c Adapter	445978-B21
	HP NC364m Quad Port 1GbE BL-c Adapter NOTE: If the NC364m is installed in mezzanine slot 1 of a half-height server, connectivity will be provided on only 2 of the 4 ports.	447883-B21
	HP NC382m Dual Port 1GbE Multifunction BL-c Adapter	453246-B21
	QLogic iSCSI Dual Port Adapter with Virtual Connect for c-Class BladeSystem	488074-B22
	<b>NOTE:</b> The Gigabit Ethernet adapters above transmit from the server at 2000 Mbps, full duplex per port. For more information, see the "Network Controller" segment in the Standards Features section.	
	10 Gigabit Ethernet Mezzanines	
	HP NC522m Dual Port Flex-10 10GbE Multifunction BL-c Adapter NOTE: The NC522m requires a minimum of 2 GB of server memory. NOTE: The NC522m supports linking at 1000Mbps or 10000Mbps when not connected to a Flex-10 enabled module and will link with all current 1Gb switches at 1Gb.	467801-B21
	HP NC532m Dual Port Flex-10 10GbE Multifunction BL-c Adapter	467799-B21
	NOTE: The NC532m network adapter card is required for each server blade connecting to a 10Gb interconnect in bays 3-8 (HP BladeSystem c7000 Enclosure) or bays 3-4 (HP BladeSystem c3000 Enclosure). NOTE: The NC532m requires a minimum of 2 GB of server memory. NOTE: The NC532m supports linking at 1000Mbps or 10000Mbps when not connected to a Flex-10 enabled module and will link with all current 1Gb switches at 1Gb.	
	HP NC550m 10GbE 2-port PCle x8 Flex-10 Ethernet Adapter NOTE: The NC550m network adapter card is required for each server blade connecting to a 10Gb interconnect in bays 3-8 (HP BladeSystem c7000 Enclosure) or bays 3-4 (HP BladeSystem c3000 Enclosure). NOTE: The NC550m requires a minimum of 2 GB of server memory. NOTE: The NC550m supports linking at 1000Mbps or 10000Mbps when not connected to a Flex-10 device. The NC550m will only support 1000Mbps when connected to a 1Gb Ethernet interconnect.	581204-B21
HP Fibre Channel	4Gb Fibre Channel Mezzanines	
Mezzanine Options	Emulex LPe1105 4Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem QLogic QMH2462 4Gb Fibre Channel Host Bus Adapter for c-Class BladeSystem	403621-B21 403619-B21



### Core Options

HP Processors	HP BL495c G6 AMD Opteron™ 2435 (2.60GHz/6-core/6MB/75W) Processor Kit	539805-B21
	HP BL495c G6 AMD Opteron™ 2427 (2.20GHz/6-core/6MB/75W) Processor Kit	539808-B21
	HP BL495c G5 AMD Opteron™ 2389 (2.90GHz/4-core/6MB/75W) Processor Kit	519238-B21
	HP BL495c G5 AMD Opteron™ 2387 (2.80GHz/4-core/6MB/75W) Processor Kit	532314-B21
	HP BL495c G5 AMD Opteron™ 2384 (2.70GHz/4-core/6MB/75W) Processor Kit	500042-B21
	HP BL495c G5 AMD Opteron™ 2382 (2.60GHz/4-core/6MB/75W) Processor Kit	500044-B21
	HP BL495c G5 AMD Opteron™ 2378 (2.40GHz/4-core/6MB/75W) Processor Kit	505639-B21
	HP BL495c G5 AMD Opteron™ 2356 (2.30GHz/4-core/2MB/75W) Processor Kit	453434-B21
	HP BL495c G5 AMD Opteron™ 2352 (2.10GHz/4-core/2MB/75W) Processor Kit	453435-B21
	HP BL495c G6 AMD Opteron™ 2425HE (2.10GHz/6-core/6MB/55W) Processor Kit	539812-B21
	HP BL495c G5 AMD Opteron™ 2381HE (2.50GHz/4-core/6MB/55W) Processor Kit	519240-B21
	HP BL495c G5 AMD Opteron™ 2376HE (2.30GHz/4-core/6MB/55W) Processor Kit	508872-B21
	HP BL495c G5 AMD Opteron™ 2347HE (1.90GHz/4-core/2MB/55W) Processor Kit	453441-B21
HP Memory	HP 2GB (2x1GB) Single Rank PC2-6400 (DDR2-800) Registered Memory Kit	497763-B21
,	NOTE: Compatible with the AMD Opteron processor Models 2376 HE, 2378, 2381 HE, 2382, 2384, 2387, 2389, 2425 HE, 2427, and 2435.	
	HP 4GB (2x2GB) Single Rank PC2-5300 (DDR2-667) Registered Low Power Memory Kit	483401-B21
	<b>NOTE:</b> Compatible with the AMD Opteron processor Models 2347 HE, 2352, and 2356.	
	HP 4GB (2x2GB) Single Rank PC2-6400 (DDR2-800) Registered Memory Kit NOTE: Compatible with the AMD Opteron processor Models 2376 HE, 2378, 2381 HE, 2382, 2384, 2387, 2389, 2425 HE, 2427, and 2435.	497765-B21
	HP 8GB (2x4GB) Dual Rank PC2-5300 (DDR2-667) Registered Memory Kit NOTE: Compatible with the AMD Opteron processor Models 2347 HE, 2352, and 2356.	408854-B21
	HP 8GB (2x4GB) Dual Rank PC2-5300 (DDR2-667) Registered Low Power Memory Kit	483403-B21
	NOTE: Compatible with the AMD Opteron processor Models 2347 HE, 2352, and 2356.	
	HP 8GB (2x4GB) Dual Rank PC2-6400 (DDR2-800) Registered Memory Kit NOTE: Compatible with the AMD Opteron processor Models 2376 HE, 2378, 2381 HE, 2382, 2384, 2387, 2389, 2425 HE, 2427, and 2435.	497767-B21
	HP 8GB (2x4GB) Dual Rank x4 PC2-6400 (DDR2-800) Registered Low Power Memory Kit	504351-B21
	NOTE: Compatible with the AMD Opteron processor Models 2376 HE, 2378, 2381 HE, 2382, 2384, 2387, 2389, 2425 HE, 2427, and 2435.	
	HP 16GB (2x8GB) Dual Rank PC2-5300 (DDR2-667) Registered Memory Kit NOTE: Compatible with the AMD Opteron processor Models 2347 HE, 2352, 2356, 2376 HE, 2378, 2381 HE, 2382, 2384, 2387, 2389, 2425 HE, 2427, and 2435.	408855-B21
	HP 64GB (8x8GB) Dual Rank PC2-5300 (DDR2-667) Registered Memory Kit NOTE: Compatible with the AMD Opteron processor Models 2347 HE, 2352, 2356, 2376 HE, 2378, 2381 HE, 2382, 2384, 2387, 2389, 2425 HE, 2427, and 2435.	495605-B21



### Core Options

	NOTE: Must be installed in pairs. NOTE: The memory bus will operate at 800 MHz with four (4) or fewer DIMMs per processor, 667 MHz with six (6) DIMMs per processor, and 533 MHz with eight (8) DIMMs per processor.	
HP Hard Drives	<b>NOTE:</b> Drives have either a one year or three year warranty; refer to the specific drive QuickSpecs for details.	
	HP 32GB 1.5G SATA SFF (2.5-inch) Non-hot Plug Entry 3yr Warranty Solid State Drive	461201-B21
	HP 64GB 1.5G SATA SFF (2.5-inch) Non-hot Plug Entry 3yr Warranty Solid State Drive	461203-B21
	NOTE: Please see the QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/13121_div/13121_div.html	



### Additional Options

HP Insight Software       HP Insight Control       T90748AE         Support and Updates       HP Insight Control, No Media 1-Server License including 1 year of 24x7 Technical       452148-822         Support and Updates       NOTE: For additional License kits please see the QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/12631_div/12631_div.html       436222-821         HP Insight Control, No Media 1-Server License including 1 year of 24x7 Technical       436222-821         MOTE: For additional License kits please see the QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/12631_div/12631_div.html       436222-821         MOTE: Insight Software DVD media without Licenses. Contains Insight Control, Insight Dynomics and Yurud Connet Enterprise Mangaer, Uses an integrated instoller to perform quick and accurate software installation and updates.       436222-821         NOTE: Electronic Licenses can be used to purchase multiple Licenses with a single activation key, and is contable in all countries seeper China and Japan. Customers in China and Japan should order the physical equivalent.       NOTE: Locatomer will receive a License entillement cartificate, which must be redeemed online or via for in order to obtain the License activation key(s). Includes one year of 24 x 7 HP Software Technical Support & Update Sarvice.       TC213AE         HP Insight Control for Linux, No Media, 1-Server License, including one year of 24x7       TC209A         Technical Support and Updates, Bectronic       TC213AE         HP Insight Control for Linux, No Media, 1-Server Licenses included NOTE: Heatonic Licenses can be used to purcha	of an HP approved.	nay not be integrated at the factory. To ensure only valid configurations are ordered, HP reco	
Support and Updates       452148-822         HP Insight Control, No Media 1-Server License including 1 year of 24x7 Technical       452148-822         Support and Updates       452148-822         NOTE: For additional license kits please see the QuickSpecs at:       436222-821         HP Insight Software Media Kit       436222-821         NOTE: Insight Software Media Kit       436222-821         NOTE: Electronic Icenses concert Enterprise Manager, Uses on Integrated Installer to perform quick and accurate software installation and updates.       436222-821         NOTE: Electronic Icenses con be used to purchase multiple licenses with a single activation key, and is available in all countries except China and Japan. Customers in China and Japan should order the physical equivalent.       436222-821         NOTE: Electronic Icenses con be used to purchase multiple licenses with a single activation key, and is available in all countries except China and Japan. Customers in China and Japan should order the physical equivalent.       NOTE: Customer will receive a license entitlement certificate, which mus be redeemed online or via fax in arder to obtain the license activation key[s]. Includes one year of 24 x 7 HP Software Technical Support & Update Service.       TC213AAE         HP Insight Control for Linux, No Media, 1-Server license, including one year of 24x7 Technical Support and Updates.       TC209A         Technical Support and Updates       TC209A       TC209A         HP Insight Control for Linux, No Media, 1-Server license, including one year of 24x7       TC209A	HP Insight software	HP Insight Control	
Support and Updates NOTE: For additional license kits please see the QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/12631_div/12631_div/html HP Insight Software Media Kit A36222-821 NOTE: Insight Software DVD media without licenses. Contains Insight Control, Insight Dynamics and Virtual Conner Enterprise Manager. Uses an integrated installer to perform quick and accurate software installation and updates. NOTE: Licenses ship without media. The HP Insight Control Media Kit can be ordered separately, or can be downloaded at: http://www.hp.com/go/insightupdates. NOTE: Electronic licenses can be used to purchase multiple licenses with a single activation key, and is available in all countries except China and Japan. Should order the physical equivalent. NOTE: Customer will receive a license entitlement certificate, which must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24 x 7 HP Software Technical Support & Update Service. NOTE: For additional license, tits, including one year of 24x7 Technical Support and Updates. HP Insight Control for Linux, 1-server license, including one year of 24x7 Technical Support and Updates HP Insight Control for Linux, Ned Media, 1-Server license, including one year of 24x7 Technical Support and Updates HP Insight Control for Linux, Media pack (DVD) - No licenses included NOTE: Montel for Linux, Ned Media, 1-Server license, including one year of 24x7 Technical Support and Updates HP Insight Control for Linux, Media pack (DVD) - No licenses included NOTE: Montel for Linux, Media pack (DVD) - No licenses included NOTE: Montel for Linux, Media pack (DVD) - No licenses included NOTE: Montel for Linux, Media pack (DVD) - No licenses included NOTE: Montel for Linux, Media pack (DVD) - No licenses included NOTE: Montel for Linux, Media pack (DVD) - No licenses included NOTE: Montel for Linux, Media pack (DVD) - No licenses included NOTE: Montel for Linux, Media pack (DVD) - No licenses included NOTE: Montel for Linux for th			T9074BAE
http://h18000.www1.hp.com/products/quickspecs/12631_div/12631_div.html       436222-821         NOTE: Insight Software DVD media without licenses. Contains Insight Control, Insight Dynamics and Virtual Conneet Enterprise Manager. Uses an integrated installer to perform quick and accurate software installation and updates.       436222-821         NOTE: Licenses ship without media. The HP Insight Control Media Kit can be ordered separately, or can be downloaded at: http://www.hp.com/go/insighupdates.       NOTE: Electronic licenses can be used to purchase multiple licenses with a single activation key, and is available in all countries except China and Japan. Customers in China and Japan should order the physical equivalent.       NOTE: Control New Software Technical Support & Update Service.         NOTE: For additional license kits, including bundles with HP Bladgbytsem enclosures, please see the Insight Control QuickSpecs at: http://h18004.www1.hp.com/products/quickspecs/12631_div/12631_div.html       TC213AAE         HP Insight Control for Linux, 1-server license, including one year of 24x7       TC209A         Technical Support and Updates       TC209A         HP Insight Control for Linux, Ne Media, 1-Server licenses, including one year of 24x7       TC209A         TC209A       TC209A         NOTE: Electronic licenses ship without media. The Media Kit for the linght Control for Linux, Net licenses must be acquired separately.       TC208A         NOTE: Insight Control for Linux, Net Media, 1-Server license, including one year of 24x7       TC209A         Technical Support and Updates       TC208A			452148-B22
<ul> <li>NOTE: Insight Software DVD media without licenses. Contains Insight Control, Insight Dynamics and Virtual Connect Enterprise Manager. Uses and use of integrated installer to perform quick and accurate software installation and updates.</li> <li>NOTE: Licenses ship without media. The HP Insight Control Media Kit can be ordered separately, or can be downloaded at: http://www.hp.com/go/insightpdates.</li> <li>NOTE: Electronic licenses can be used to purchose multiple licenses with a single activation key, and is available in all countries except China and Japan. Customers in China and Japan should order the physical equivalent.</li> <li>NOTE: Customer will receive a license entitlement certificate, which must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24 x 7 HP Software Technical Support &amp; Update Service.</li> <li>NOTE: For additional license kits, including bundles with HP BladeSystem enclosures, please see the Insight Control GuickSpecs at: http://h18004.www1.hp.com/products/quickspecs/12631_div/12631_div.html</li> <li>HP Insight Control for Linux, 1-server license, including one year of 24x7 Technical Support and Updates, Electronic</li> <li>HP Insight Control for Linux, No Media, 1-Server license, including one year of 24x7</li> <li>Technical Support and Updates</li> <li>HP Insight Control for Linux, No Media, 1-Server licenses included</li> <li>HP Insight Control for Linux, No Media, 1-Server licenses included</li> <li>TC209A</li> <li>Technical Support and Updates.</li> <li>HP Insight Control for Linux, No Media, 1-Server licenses with a singlet activation and an integrated installer. Licenses must be acquired separately.</li> <li>NOTE: Licenses ship without media. The Media Kit for Insight Control for Linux, contegrately, or can be downloaded at: http://www.hp.com/go/ic-linux (click on Download button).</li> <li>NOTE: Electronic licenses can be used to purchase multiple licenses with a single activation key, and are available in all countries</li></ul>			
Dynamics and Virtual Connect Enterprise Manager. Uses an integrated installer to perform quick and accurate software installation and updates.       NOTE: Licenses ship without media. The HP Insight Control Media Kit can be ordered separately, or can be downloaded at: http://www.hp.com/go/insightupdates.         NOTE: Licenses ship without media. The HP Insight Control Media Kit can be ordered separately, or can be downloaded at: http://www.hp.com/go/insightupdates.         NOTE: Licenses virtual Control Several China and Japan. Customers in China and Japan should order the physical equivalent.         NOTE: Customer will receive a license entillement certificate, which must be redeemed online or vir fax in order to obtain the license activation keyls). Includes one year of 24 x 7 HP Software Technical Support & Update Service.         NOTE: For additional License kits, including bundles with HP BladeSystem enclosures, please see the Insight Control OuicKSpecs at: http://h18004.www1.hp.com/products/quickspecs/12631_div/12631_div.html       TC213AAE         HP Insight Control for Linux, No Media, 1-Server license, including one year of 24x7 Technical Support and Updates, Electronic       TC209A         HP Insight Control for Linux, No Media, 1-Server licenses included       TC208A         NOTE: Licenses ship without media. The Media Kit for Insight Control for Linux, HP Systems Insight Manager, HP Insight Control power management, HP Insight Control for Linux, Media pack (DVD) - No licenses with a single activation key, or an be downloaded at: http://www.hp.com/go/ic-linux (dick on Download button).       TC208A         NOTE: Licenses ship without media. The Media Kit for Insight Control for Linux, Click on Download button].		HP Insight Software Media Kit	436222-B21
perform quick and accurate software installation and updates. NOTE: Licenses ship without media. The HP Insight Control Media Kit can be ordered separately, or can be downloaded at: http://www.hp.com/go/insighupdates. NOTE: Electronic licenses can be used to purchase multiple licenses with a single activation key, and is available in all countries except China and Japan. Customers in China and Japan should order the physical equivalent. NOTE: Customer will receive a license entitlement certificate, which must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24 x 7 HP Software Technical Support & Update Service. NOTE: For additional license kits, including bundles with HP BladeSystem enclosures, please see the Insight Control QuickSpacs at: http://h18004.www1.hp.com/products/quickspecs/12631_div/12631_div.html HP Insight Control for Linux, 1-server license, including one year of 24x7 Technical Support and Updates. HP Insight Control for Linux, No Media, 1-Server license including one year of 24x7 Technical Support and Updates HP Insight Control for Linux, No Media, 1-Server license including one year of 24x7 Technical Support and Updates HP Insight Control for Linux, No Media pack (DVD) - No licenses included NOTE: Media pack DVD contains HP Insight Control virtual machine management, and an integrated installer. Licenses must be acquired separately. NOTE: Licenses ship without media. The Media Kit for Insight Control virtual machine management, or an be downloaded at: http://www.hp.com/go/ic-linux (dick on Download button). NOTE: Electronic licenses can be used to purchase multiple licenses with a single activation key, and are available in all countries except China and Japan. Customers in China and Japan should order the physical equivalent. NOTE: Customer will receive a license entillement certificate, which must be redeemed online or vi of ax in order to obtain the license activation key(s). Includes one year of 24 x 7 HP Softw			
separately, or can be downloaded at: http://www.hp.com/go/insightupdates. NOTE: Electronic licenses can be used to purchase multiple licenses with a single activation key, and is available in all countries except China and Japan. Customers in China and Japan should order the physical equivalent. NOTE: Customer will receive a license entillement certificate, which must be redeemed online or via fax in order to obtain the license activation key[s]. Includes one year of 24 x 7 HP Software Technical Support & Update Service. NOTE: For additional license kits, including bundles with HP BladeSystem enclosures, please see the Insight Control GuickSpecs at: http://h18004.www1.hp.com/products/quickspecs/12631_div/12631_div.html HP Insight Control for Linux, 1-server license, including one year of 24x7 Technical Support and Updates, Electronic HP Insight Control for Linux, No Media, 1-Server license, including one year of 24x7 Technical Support and Updates HP Insight Control for Linux, No Media, 1-Server license, including one year of 24x7 Technical Support and Updates HP Insight Control for Linux, No Media, 1-Server licenses included NOTE: Media pack DVD contains HP Insight Control for Linux, HP Systems Insight Manager, HP Insight Control power management, HP Insight Control virtual machine management, and an integrated installer. Licenses must be acquired separately. NOTE: Licenses ship without media. The Media Kit for Insight Control for Linux can be ordered separately, or can be downloaded at: http://www.hp.com/go/ic-linux (click on Download button). NOTE: Electronic licenses can be used to purchase multiple licenses with a single activation key, and are available in all countries except China and Japan. Customers in China and Japan should order the physical equivalent. NOTE: Customer will receive a license entiltement certificate, which must be redeemed online or via fax in order to obtin the license activation key[s]. Includes one year of 24 x 7 HP Software Technical Support Service. NOTE: For additional License Ki			
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### Additional Options

	HP Integrated Lights-Out (iLO) Advanced for BladeSystem (1) Server License/(1) Key for BladeSystem, No Media, including 1 year of 24x7 Technical Support and Updates. NOTE: Electronic licenses can be used to purchase multiple licenses with a single activation key, and is available in all countries except China and Japan. Customers in China and Japan should order the physical equivalent. NOTE: Customer will receive a license entitlement certificate, which must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24 x 7 HP Software Technical Support Service. NOTE: For additional license kits please see the HP Integrated Lights-Out 2 (iLO 2) QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/12362_div/12362_div.html	512488-B21
	HP Insight Control server deployment HP Insight Control server deployment Electronic License including 1 year 24x7 Technical Support and Updates	T9082AAE
	HP Insight Control server deployment 1-Server License including 1 year 24x7 Technical Support and Updates	452151-B21
	<ul> <li>NOTE: Licenses ship without media. The Insight Control Media Kit can be ordered separately, or can be downloaded at: http://www.hp.com/go/insightupdates.</li> <li>NOTE: Electronic licenses can be used to purchase multiple licenses with a single activation key, and is available in all countries except China and Japan. Customers in China and Japan should order the physical equivalent.</li> <li>NOTE: Customer will receive a license entitlement certificate, which must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24 x 7 HP Software Technical Support Service.</li> <li>NOTE: For additional license kits please see the Insight Control QuickSpecs at: http://h18004.www1.hp.com/products/quickspecs/12631_div/12631_div.html</li> </ul>	
HP Storage Controllers	HP Cluster Management Utility Compute Node License NOTE: This part number can be used to purchase one certificate for multiple licenses with a single activation key. Each license is for one node (server). Customer will receive a printed end user license agreement and license entitlement certificate via physical shipment. The license entitlement certificate must be redeemed online in order to obtain a license key. NOTE: For additional license kits please see the QuickSpecs at: http://h18004.www1.hp.com/products/quickspecs/12612_div/12612_div.html	436284-B21
	HP Cluster Management Utility Media and Management License NOTE: Order a minimum of one license per cluster to purchase media including software and documentation, which will be delivered to the customer, and also licenses CMU management. No license key is delivered or required. NOTE: For additional license kits please see the QuickSpecs at: http://h18004.www1.hp.com/products/quickspecs/12612 div/12612 div.html	433257-B21
	HP HPC Linux Value Pack One Processor License NOTE: This part number can be used to purchase one certificate for multiple licenses with a single activation key. Each license is for one socket (a.k.a. processor). Customer will receive a printed end user license agreement and license entitlement certificate via physical shipment. The license entitlement certificate must be redeemed online in order to obtain a license key. NOTE: For additional license kits please see the QuickSpecs at: http://h18004.www1.hp.com/products/quickspecs/13485_div/13485_div.html	TC293A



### HP ProLiant BL495c Generation 5 (G5) Server Blade

Additional Options		
	HP HPC Linux Value Pack Media NOTE: This part number can be used to purchase media including software and documentation, which will be delivered to the customer. NOTE: For additional license kits please see the QuickSpecs at: http://h18004.www1.hp.com/products/quickspecs/13485_div/13485_div.html	TC294A
HP Storage Controllers	Smart Array P700m Controller	
	HP Smart Array P700m/512 4-ports Ext PCIe x8 SAS Controller	508226-B21
	HP Smart Array P700m/256 4-ports Ext PCIe x8 SAS Controller	507925-B21
	NOTE: Please see the QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/13175_div/13175_div.html (Worldwide)	
	Smart Array P712m Controller	
	HP Smart Array P712m/ZM 2-ports Int PCIe x8 SAS Controller	484299-B21
	NOTE: Provides RAID support on internal non-hot plug SSDs. NOTE: Please see the QuickSpecs for Technical Specifications and additional information at: http://h18000.www1.hp.com/products/quickspecs/13296_div/13296_div.html (Worldwide)	
	Optional Upgrade	
	HP 650 mAh P-series Low Profile Battery NOTE: The HP 650 mAh P-Series battery option kit is required to enable battery- backed write cache (BBWC) on the P712m Controller.	575031-B21
	HP Smart Array P-Series Low Profile Battery NOTE: The Smart Array P-Series battery option kit is required to enable battery- backed write cache (BBWC) on the P700m Controller.	452348-B21
HP I/O Expansion	HP StorageWorks 80GB IO Accelerator for BladeSystem c-Class	AJ876A
Options	HP StorageWorks 160GB IO Accelerator for BladeSystem c-Class	AJ877A
	HP StorageWorks 320GB IO Accelerator for BladeSystem c-Class	AJ878A
	NOTE: Please see the QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/13220_div/13220_div.html	
HP c-Class Mezzanine Options	HP 4X DDR IB Dual Port Mezzanine HCA for HP BladeSystem c-Class	448262-B21



Additional Options		
HP Ultrium Tape Blades	HP StorageWorks SB1760c Tape Blade NOTE: LTO-4 Ultrium technology	AQ697A
	HP StorageWorks SB920c Tape Blade NOTE: LTO-3 Ultrium technology	AJ401A
	HP StorageWorks Ultrium 448c Tape Blade NOTE: LTO-2 Ultrium tape technology	440947-B21
	NOTE: Please see the QuickSpecs for Technical Specifications and additional information at: http://h18000.www1.hp.com/products/quickspecs/12729_div/12729_div.html NOTE: Please visit the BladeSystem c-Class enclosure QuickSpecs for a complete list of recommended data protection solutions for BladeSystem c-Class enclosures: http://h18004.www1.hp.com/products/blades/components/enclosures/c- class/index.html.	
	e HP StorageWorks LTO-5 SB3000c Tape Blade	BS580A
Blades	NOTE: Please see the QuickSpecs for Technical Specifications and additional information at: http://h18000.www1.hp.com/products/quickspecs/12729_div/12729_div.html (Worldwide)	
	HP StorageWorks SB40c Storage Blade	411243-B21
	HP StorageWorks SB40c Storage Blade with HP LeftHand VSA bundle NOTE: Please see the QuickSpecs for Technical Specifications and additional information at: http://h18000.www1.hp.com/products/quickspecs/12587_div/12587_div.html (Worldwide)	AT459A
HP Expansion Blade	HP PCI Expansion Blade	448018-B21
·	NOTE: Ships with one pre-installed PCI-X connect board. Also includes one PCIe connect board which requires installation. NOTE: Please see the QuickSpecs for Technical Specifications and additional information at: http://h18000.www1.hp.com/products/quickspecs/12753_div/12753_div.html	
HP USB and SD Options	HP USB 2-Button Optical Scroll Mouse (Carbonite/Silver) HP USB 04 Standard Keyboard HP 2GB USB Flash Media Drive Key Kit NOTE: HP qualified blank USB key for use with HP ProLiant servers that support the VMware virtualization environment and other HP value-add software like SmartStart. HP recommends this industry standard USB flash device for use with VMware ESXi. USB device must be installed in the internal slot of the ProLiant server for use with VMware ESXi. Refer to HP VMware Getting Started Guide for installation instructions.	DC172B DT528A#ABA 608447-B21



### Additional Options

HP Care Pack Services

**NOTE:** The HP Care Pack service part numbers below for ProLiant BL c-Class server blades, cover the server blade and all HP branded hardware options qualified for the server, purchased at the same time or afterwards, internal to the server.

#### Hardware Services On-site Service

4-Hour On-site Service, 5-Day x 13-Hour Coverage, 3 Years, Electronic	UK065E
4-Hour On-site Service, 7-Day x 24-Hour Coverage, 3 Years, Electronic	UK066E
6-Hour Call to Repair, On-site Service, 7-Day x 24-Hour Coverage, 3 Years, Electronic	UK067E
Electronic	



### Memory

#### NOTE: Memory configurations listed do not apply to "Factory Integrated Models".

#### DIMM installation guidelines:

- 1. All DIMMs must be PC2-5300 Registered DDR2 DIMMs (667 MHz) or PC2-6400 Registered DDR2 DIMMs (800 MHz).
- 2. PC2-6400 DDR2 DIMMs are only supported with the AMD Opteron processor Models 2376 HE, 2378, 2381 HE, 2382, 2384, 2387, 2389, 2425 HE, 2427, and 2435.
- 3. Both DIMM slots in a memory bank must be populated.
- 4. Both DIMMs in a memory bank must be identical.
- 5. Processor 1 memory bank A must always be populated.
- 6. DIMM banks are active only when the corresponding processor socket is populated.
- 7. If installing only one bank on a processor, populate the bank physically farthest from the processor.
- 8. If mixing DIMM sizes on the same processor, the largest capacity DIMMs must be populated in the bank physically farthest from the processor. The smallest capacity DIMMs must be populated in the bank physically nearest the processor.
- 9. For optimal performance in most applications, populate the first memory bank for every populated processor socket.
- 10. The memory bus will operate at 800 MHz with four (4) or fewer DIMMs per processor, 667 MHz with six (6) DIMMs per processor, and 533 MHz with eight (8) DIMMs per processor.

#### HP ProLiant BL495c G5 Server Blade

#### Standard Memory

4096 MB (2 x 2048 MB) of PC2-5300 or PC2-6400, Registered DDR2 ECC DIMMs.

#### Standard Memory Plus Optional Memory

Up to 118784 MB of PC2-5300 or 61440 MB of PC2-6400, Registered DDR2 ECC DIMMs. Memory is available with the installation of optional PC2-5300 or PC2-6400, Registered DDR2 DIMM memory expansion kits.

#### Standard Memory Replaced with Optional Memory

Up to 131072 MB of PC2-5300 or 65536 MB of PC2-6400, Registered DDR2 ECC DIMMs. Memory is available with the removal of standard memory and the installation of optional PC2-5300 or PC2-6400, Registered DDR2 DIMM memory expansion kits.

1 Processor Configurations									
Me	mory				SI	ot			
		1A	2A	3B	4B	5C	6C	7D	8D
Standard	4096 MB	2048 MB	2048 MB	Empty	Empty	Empty	Empty	Empty	Empty
Optional	53248 MB	8192 MB	2048 MB	2048 MB					
Maximum	65536 MB	8192 MB							

2 Processor Configuration, Total Memory = 60GB								
Memory				S	ot			
	1A	2A	3B	4B	5C	6C	7D	8D
	4096 MB	4096 MB	4096 MB	4096 MB	4096 MB	4096 MB	2048 MB	2048 M
	9E	10E	11F	12F	13G	14G	15H	16H
	4096 MB	4096 MB	4096 MB	4096 MB	4096 MB	4096 MB	4096 MB	4096 M
		2 Processor (	Configuratior	n, Total Mem	ory = 64GB			
Memory		2 Processor (	Configuratior		ory = 64GB ot			
Memory	1A	2 Processor ( 2A	Configuratior 3B			6C	7D	8D
Memory				S	ot	6C 4096 MB	7D 4096 MB	8D 4096 M
Memory	1A	2A	3B	SI 4B	ot 5C			



### Memory

	2 Processor Configuration, Total Memory = 116GB							
Memory	y Slot							
	1A	2A	ЗB	4B	5C	6C	7D	8D
	8192 MB	8192 MB	8192 MB	8192 MB	8192 MB	8192 MB	2048MB	2048MB
	9E	10E	11F	12F	13G	14G	15H	16H
	8192 MB	8192 MB	8192 MB	8192 MB	8192 MB	8192 MB	8192 MB	8192 MB
	2	2 Processor C	Configuration,	, Total Memo	ory = 128GB			
Memory				S	ot			
	1A	2A	ЗB	4B	5C	6C	7D	8D
	8192MB	8192MB	8192MB	8192MB	8192MB	8192MB	8192MB	8192MB
	9E	10E	11F	12F	13G	14G	15H	16H
	8192MB	8192MB	8192MB	8192MB	8192MB	8192MB	8192MB	8192MB

#### HP Memory

Following are memory options available from HP:	
HP 2GB (2x1GB) Single Rank PC2-6400 (DDR2-800) Registered Memory Kit NOTE: Compatible with the AMD Opteron processor Models 2376 HE, 2378, 2381 HE, 2382, 2384, 2387, 2389, 2425 HE, 2427, and 2435.	497763-B21
HP 4GB (2x2GB) Single Rank PC2-5300 (DDR2-667) Registered Low Power Memory Kit	483401-B21
<b>NOTE:</b> Compatible with the AMD Opteron processor Models 2347 HE, 2352, and 2356.	
HP 4GB (2x2GB) Single Rank PC2-6400 (DDR2-800) Registered Memory Kit NOTE: Compatible with the AMD Opteron processor Models 2376 HE, 2378, 2381 HE, 2382, 2384, 2387, 2389, 2425 HE, 2427, and 2435.	497765-B21
HP 8GB (2x4GB) Dual Rank PC2-5300 (DDR2-667) Registered Memory Kit NOTE: Compatible with the AMD Opteron processor Models 2347 HE, 2352, and 2356.	408854-B21
HP 8GB (2x4GB) Dual Rank PC2-5300 (DDR2-667) Registered Low Power Memory Kit	483403-B21
<b>NOTE:</b> Compatible with the AMD Opteron processor Models 2347 HE, 2352, and 2356.	
HP 8GB (2x4GB) Dual Rank PC2-6400 (DDR2-800) Registered Memory Kit NOTE: Compatible with the AMD Opteron processor Models 2376 HE, 2378, 2381 HE, 2382, 2384, 2387, 2389, 2425 HE, 2427, and 2435.	497767-B21
HP 8GB (2x4GB) Dual Rank x4 PC2-6400 (DDR2-800) Registered Low Power Memory Kit	504351-B21
<b>NOTE:</b> Compatible with the AMD Opteron processor Models 2376 HE, 2378, 2381 HE, 2382, 2384, 2387, 2389, 2425 HE, 2427, and 2435.	
HP 16GB (2x8GB) Dual Rank PC2-5300 (DDR2-667) Registered Memory Kit NOTE: Compatible with the AMD Opteron processor Models 2347 HE, 2352, 2356, 2376 HE, 2378, 2381 HE, 2382, 2384, 2387, 2389, 2425 HE, 2427, and 2435.	408855-B21
HP 64GB (8x8GB) Dual Rank PC2-5300 (DDR2-667) Registered Memory Kit NOTE: Compatible with the AMD Opteron processor Models 2347 HE, 2352, 2356, 2376 HE, 2378, 2381 HE, 2382, 2384, 2387, 2389, 2425 HE, 2427, and 2435.	495605-B21



### Memory

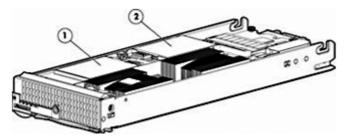
NOTE: Must be installed in pairs.

**NOTE:** DIMMs must be installed in decreasing capacity with the largest DIMMs installed in the banks furthest away from each processor. **NOTE:** The memory bus will operate at 800 MHz with four (4) or fewer DIMMs per processor, 667 MHz with six (6) DIMMs per processor, and 533 MHz with eight (8)

DIMMs per processor.



Storage



1-2 2 x SATA Solid State Drives (SSD)

#### SATA Non-Hot Plug Solid State Drives

NOTE: Hard Drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details.

	Quantity Supported	Position Supported	Controller
32GB 1.5G SATA SSD	2	1-2	HP Integrated SATA Controller HP Smart Array P712m Controller
64GB 1.5G SATA SSD	2	1-2	HP Integrated SATA Controller HP Smart Array P712m Controller



### Technical Specifications

System Unit	Dimensions ( $H \times W \times D$ ) Weight	Maximum	n (18.17 x 5.56 x 50.95 cm) 14.20 lb (6.44 kg)	
	(approximate)	(all hard drives and processors installed)		
		Minimum (one hard drive and processor installed)	10.75 lb (4.87 kg)	
	Power Specifications	For power specifications including Input Requirements, BTU Rating, and Power Supply Output, please see the HP BladeSystem c-Class Enclosures QuickSpecs located at URL: HP BladeSystem c3000 Enclosure QuickSpecs: http://h18000.www1.hp.com/products/quickspecs/12790_div/ 12790_div.html HP BladeSystem c7000 Enclosure QuickSpecs: http://h18000.www1.hp.com/products/quickspecs/12810_div/		
		12810_div.html		
		To review typical system power ratings use the HP BladeSystem Power Sizer which is available via the online tool located at URL: http://www.hp.com/go/bladesystem/powercalculator		
	System Inlet Temperature		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).	
	<b>Relative Humidity</b> (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.	
		Non-operating	Maximum allowable altitude change rate is 457 m/min (1500 ft/min).	
	Acoustic Noise	For acoustic noise specifications, please see the HP BladeSystem c-Class Enclosures QuickSpecs located at URL: HP BladeSystem c3000 Enclosure QuickSpecs: http://h18000.www1.hp.com/products/quickspecs/12790_div/ 12790_div.html HP BladeSystem c7000 Enclosure QuickSpecs:		



### Technical Specifications

http://h18000.www1.hp.com/products/quickspecs/12810\_div/ 12810\_div.html

-				
Embedded NC532i Dual Port Flex-10 10GbE Multifunction Server Adapter	Туре	Integrated dual-port KR 10GbE		
	Network Processor	<ul> <li>Broadcom 57711</li> <li>x8 PCI Express 1.0</li> <li>Two ports, each at 20 Gbps full duplex; 40 Gbps aggregate full duplex theoretical bandwidth</li> <li>NOTE: Each port is autosensing 1 Gb / 10 Gb, and can interoperate with Gb HP BladeSystem c-Class interconnect components.</li> <li>NOTE: Each port on the NC532i adapter transmits from the server at only 20 Gbps (theoretical) full duplex.</li> </ul>		
	Data Transfer Method			
Addpier	Network Transfer Rate			
	IEEE Compliance	802.1p QoS, 802.1Q VLAN tagging, 802.3ad link aggregation, 802.3ap 10GBase-KR, and 802.3x flow control		
	Standard Features	<ul> <li>ProLiant Teaming including Network Fault Tolerance, Transmit Load Balancing, and Switch-Assisted Load Balancing</li> <li>4K Jumbo frames</li> <li>Microsoft Windows Receive Side Scaling (RSS)</li> <li>Optional accelerated iSCSI</li> </ul>		
HP Integrated Lights-Out 2 (iLO 2) integrated on system board	Architecture	32-bit PCI-based health and remote management ASIC		
	Processor	32-bit RISC processor core running at 66MHz		
	Upgradeability	Option firmware upgradeable via Flash ROM		
	Operating System Support	Microsoft Windows Server 2008 Standard Edition (32bit and 64bit)		
		Microsoft Windows Server 2008 Enterprise Edition (32bit and 64bit)		
		Microsoft Windows Server 2003 and Windows Server 2003 R2, and Windows Server 2003 for Extended Systems Standard Edition, Enterprise Edition		
		Red Hat Enterprise Linux 5.4 (32bit and 64bit)		
		SUSE LINUX Enterprise Server 11 (32bit and 64bit)		
		SUSE LINUX Enterprise Server 10 (32bit and 64bit)		
		VMware ESX 4.0		
		VMware ESX 3.5.0		
		Microsoft Windows XP Professional Edition		
		Microsoft Windows Vista Business and Ultimate Editions		
		Red Hat Enterprise Linux Desktop 5.00		
		SUSE Linux Enterprise Desktop 11		
		SUSE Linux Enterprise Desktop 10		
	Client Browser Support	Microsoft Internet Explorer 7 Microsoft Internet Explorer 6		
		Firefox 3.5 (on supported Windows and Linux systems)		
		Firefox 3.0 (on supported Windows and Linux systems)		
		r freiox 5.0 (on supported windows and Linux systems)		



**Technical Specifications** 

	Command Line Support	Telnet, Secure Shell and serial port access	
Command Line Jupp		Secure Socket Layer	
		Secure Shell version 2 (Password and certificate)	
	Security	Advanced Encryption Standard (AES) and Triple Data Encryption Standard (3DES) on browser, CLP and XML scripting interface	
		RC4 encryption of video	
	Directory Support Services Active Directory v1.0 (Windows 2003)		
	Driver Support	Health Driver (HP ProLiant iLO 2 Management Controller Driver) iLO Management Channel Interface Driver	
	Management protocols supported	SNMP 2, IPMI 2.0 (KCS interface), DMTF Server Management Command Line Protocol Specification	
		(SM CLP), DMTF Web Services Management Specification (WS Management)	
Environment-friendly Products and Approach	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.	

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For hard drives, 1GB = 1 billion bytes. Actual formatted capacity is less.

