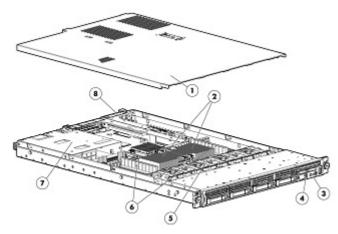
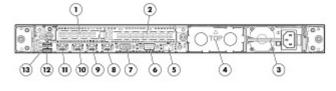
### Overview

The HP ProLiant DL360 G7 combines performance, intelligent power and cooling management with IT management tools and essential fault tolerance, all optimized for space constrained installations. A 1U server with the improved performance of the latest Intel 5600 series processors, Unique HP Thermal Logic Technologies that provide leadership in energy efficiencies and ProLiant iLO 3 remote management. HP continues to provide more performance, flexibility and efficiency for space constrained environments.





#### **Front View:**

#### 1. Hood Cover

- 2. Up to two Intel processors
- 3. Video connector
- 4. Slide-out System Insight Display (SID)
- 5. Removable fan modules for easy serviceability
- 6. Eighteen DIMM slots: DDR3 Registered (RDIMM) or Unbuffered (UDIMM) memory
- 7. Redundant Hot Plug Power Supplies (upgradeable option)
- 8. 2 PCI-E Slots

#### **Rear View:**

- 1. PCI Express expansion slot 1, low profile
- PCI Express expansion slot 2 full-height full-length x16 (16, 8, 4, 2, 1), 75W +EXT 75W (option for PCI-X card only support)
- 3. Power supply bay 1 (populated)
- 4. Power supply bay 2
- 5. iLO 3 NIC connector
- 6. Serial connector
- 7. Video connector
- 8. NIC 4 connector
- 9. NIC 3 connector
- 10. NIC 2 connector
- 11. NIC 1 connector
- 12. USB connector
- 13. USB connector

### What's New

• Support for new HP hard drives, UPS

### **Standard Features**

**NOTE:** For the Standard Features shipped in the "Factory Integrated Models", please see the "Configuration Information – Factory Integrated Models" section.

Models" section.	
Processor	Six-Core Processors
One of the following depending on Model	Intel® Xeon® X5690 (3.46GHz/6-core/12MB/130W, DDR3-1333, HT Turbo 1/1/1/2/2) Processor <b>NOTE:</b> Not sold individually - CTO Only
	Intel® Xeon® X5675 (3.06GHz/6-core/12MB/95W, DDR3-1333, HT Turbo 2/2/2/2/3/3) Processor
	Intel® Xeon® X5670 (2.93GHz/6-core/12MB/95W, DDR3-1333, HT Turbo 2/2/2/2/3/3) Processor
	Intel® Xeon® X5660 (2.80GHz/6-core/12MB/95W, DDR3-1333, HT Turbo 2/2/2/2/3/3) Processor
	Intel® Xeon® X5650 (2.66GHz/6-core/12MB/95W DDR3-1333, HT Turbo 2/2/2/2/3/3) Processor
	Intel® Xeon® E5649 (2.53GHz/6-core/12MB/80W, DDR3-1333, HT Turbo 1/1/1/2/2) Processor
	Intel® Xeon® E5645 (2.40GHz/6-core/12MB/80W, DDR3-1333, HT Turbo 1/1/1/1/2/3) Processor
	Intel® Xeon® L5640 (2.26GHz/6-core/12MB/60W, DDR3-1333, HT Turbo 2/2/3/3/4/4) Processor
	Quad-Core Processors
	Intel® Xeon® X5687 (3.60GHz/4-core/12MB/130W, DDR3-1333, HT Turbo 1/1/2/2) Processor <b>NOTE:</b> Not sold individually - CTO Only.
	Intel® Xeon® X5672 (3.20GHz/4-core/12MB/95W, DDR3-1333, HT Turbo 2/2/3/3) Processor
	Intel® Xeon® E5620 (2.40GHz/4-core/12MB/80W, DDR3-1066, HT Turbo 1/1/2/2) Processor
	Intel® Xeon® L5630 (2.13GHz/4-core/12MB/40W, DDR3-1066, HT Turbo 1/1/2/2) Processor
	Intel® Xeon® E5606 (2.13GHz/4-core/8MB/80W, DDR3-800) Processor
	Intel® Xeon® E5603 (1.60GHz/4-core/4MB/80W, DDR3-800) Processor
	<ul> <li>NOTE: Up to 2 processors supported. Performance Model configurations include two processors.</li> <li>NOTE: HT indicates that the processor model supports Intel® /Hyper-Threading Technology</li> <li>NOTE: Turbo indicates the maximum potential frequency increment when using Intel® Turbo Boost Technology, with 6,5,4,3,2 and 1(6 cores) or 4,3,2 and 1(4 cores) cores active.</li> <li>NOTE: DDR3 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed.</li> <li>NOTE: For the Intel 5600 Series, the letter preceding the model number indicated the performance/wattage of</li> </ul>
	<b>NOTE:</b> For the Intel 5600 Series, the letter preceding the model number indicated the performance/wattage of the processor. "X" denotes High Performance/Wattage; "E" denotes Enterprise Performance/Wattage (Mainstream); and "L" denotes Lower Wattage.
<b>Cache Memory</b> One of the following	12MB (1 x 12MB) Level 3 cache <b>NOTE:</b> All processor models except for those identified below.
depending on Model	8MB (1 x 8MB) Level 3 cache NOTE: For processors /E5606.
	4MB (1 x 4MB) Level 3 cache NOTE: For processors /E5603.
Chipset	Intel® 5520 Chipset <b>NOTE:</b> For more information regarding Intel® chipsets, please see the following URL: http://www.intel.com/products/server/chipsets/.
Upgradeability	Upgradeable to two processors

Memory Protection	Advanced ECC (mul Online Spare mode Mirroring mode Lock-step mode	•		eries processors)		
Memory	Туре		-	M) or Unbuffered (UD		
	DIMM Slots Availabl Standard (Performa Models)		•	1annel/3 channels per 600R (DDR3-1333) Re	•	
	Standard (Base Mod	iels) 6GB (	3 x 2GB) PC3-106	00R (DDR3-1333) Reg	istered DIMMs	
	-	Standard (Entry Model) 4GB (2 x 2GB) PC3-10600R (DDR3-1333) Registered DIMMs				
	Standard (Efficiency			00E (DDR3-1333) Unb		
	Maximum Capacity	-			une.e	
	Maximum Performa Capacity (RDIMM)		B (6 slots x 32GB (			
	Maximum Capacity	(UDIMM) 48GB	(12 slots x 4GB @	1333MHz)		
		ating with two p	rocessors the 16	DIMM slots are availa GB or 32GB Memory K	its (Quad-Rank), on	-
	configurator.	Hz. Please see the das LP include	ne Online Memory Low Power DIMM	Configuration Tool at	: www.hp.com/go/	ddr3memory-
Network Controller	configurator. <b>NOTE:</b> Kits describe Features, see: www	Hz. Please see the das LP include w.hp.com/go/pro	ne Online Memory Low Power DIMM Iliant-energy-effi ction Gigabit Serv	Configuration Tool at	t: www.hp.com/go/ on on ProLiant Ener	ddr3memory- gy Efficient
Network Controller	configurator. NOTE: Kits describe Features, see: www Two HP NC382i Dua	Hz. Please see the das LP include w.hp.com/go/pro	ne Online Memory Low Power DIMM Iliant-energy-effi ction Gigabit Serv	Configuration Tool at s. For more informati cient.	t: www.hp.com/go/ on on ProLiant Ener	ddr3memory- gy Efficient
	configurator. NOTE: Kits describe Features, see: www Two HP NC382i Dua including support f	Hz. Please see the das LP include whp.com/go/pro al Port Multifund	ne Online Memory Low Power DIMM Iliant-energy-effi ction Gigabit Serv SCSI <b>Bus</b>	Configuration Tool at s. For more informati cient. er Adapters (four port	t: www.hp.com/go/ on on ProLiant Ener ts total) with TCP/IP	ddr3memory- gy Efficient 9 Offload Engine
	configurator. NOTE: Kits describe Features, see: www Two HP NC382i Dua including support f Expansion Slots #	Hz. Please see the ed as LP include h.hp.com/go/pro al Port Multifund for Accelerated i <b>Technology</b>	he Online Memory Low Power DIMM Iliant-energy-effi ction Gigabit Serv SCSI Bus Width*	Configuration Tool at s. For more informati cient. er Adapters (four port Connector Width	t: www.hp.com/go/ on on ProLiant Ener ts total) with TCP/IP <b>Form Factor</b>	ddr3memory- gy Efficient 9 Offload Engine
	configurator. NOTE: Kits describe Features, see: www Two HP NC382i Dua including support f Expansion Slots # 1	Hz. Please see the ed as LP include h.hp.com/go/pro al Port Multifund or Accelerated i <b>Technology</b> PCI-e	he Online Memory Low Power DIMM Iliant-energy-effi SCSI Bus Width* x8	Configuration Tool at s. For more informati cient. er Adapters (four port Connector Width x8	t: www.hp.com/go/ on on ProLiant Ener ts total) with TCP/IP <b>Form Factor</b> Low profile slot Full-length, full-	ddr3memory- gy Efficient 9 Offload Engine
	configurator. NOTE: Kits describe Features, see: www Two HP NC382i Dua including support f Expansion Slots # 1 2 2 *Indicates the numb ** Indicates Option	Hz. Please see the ed as LP include h.hp.com/go/pro- al Port Multifund for Accelerated i Technology PCI-e PCI-e PCI-e PCI-e PCI-z** (133 MHz, 3.3 Voltage) ber of physical e kit designed for power requirem	he Online Memory Low Power DIMM bliant-energy-effi ction Gigabit Serv SCSI Bus Width* x8 x16 64-bit electrical lanes run PCI-X cards only.	Configuration Tool at s. For more informati cient. er Adapters (four port Connector Width x8 x16	t: www.hp.com/go/ on on ProLiant Ener ts total) with TCP/IP <b>Form Factor</b> Low profile slot Full-length, full- height slot Full-length, full- height slot	ddr3memory- gy Efficient 9 Offload Engine Notes

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Standard Features			
Storage Controller	Entry Models	HP Smart Array F	2410i/Zero Memory Controller (RAID 0/1/1+0)
One of the following	Base Models	HP Smart Array F	2410i/256 MB Controller (RAID 0/1/1+0/5/5+0)
depending on Model	Performance Models	HP Smart Array F	2410i/1G FBWC Controller (RAID 0/1/1+0/5/5+0)
	Efficiency Models	HP Smart Array F	2410i/Zero Memory Controller (RAID 0/1/1+0)
			ery kit upgrade (to add BBWC to the 256MB Memory option), 512M ray Advanced Pack (SAAP)
Internal Storage Devices	Diskette Drive	None	
	Optical Drive	Optional: DVD-R(	
	One of the following	NOTE: This optio	n available on 4 drive bay models only.
	depending on Model	Optional HP Exte	rnal USB CD/DVD R/RW for 8 drive models
	Hard Drives	None Standard	
	Drive Bays	4 SFF Bays stand	ard with option for up to 8 SFF drive bays total.
		bays with the SFI when server is co <b>NOTE:</b> This optio	ndard in Entry, Base and CTO models, with optional upgrade to 8 F HD Backplane Kit (516966-B21). No CD or DVD options available onfigured with 8 drive bays. n available for 8 drive models. HP External USB CD/DVD R/RW or 8 drive systems (must be ordered separately).
Maximum Internal Storage	Hot Plug SAS	9.6TB	8 x 1.2TB SAS
	Hot Plug SATA	4.0TB	8 x 500GB SATA
	Hot Plug SAS SSD	6.4TB	8 x 800GB SAS SSD
	Hot Plug SATA SSD	3.2TB	8 x 400GB SATA SSD
Interfaces	Serial	1	
	Video	1	
	Network RJ-45	4	
	iLO 3 remote RJ-45 management port	1	
	SD slot	1 Internal secure	
	USB 2.0 Ports	4 total: 2 rear, 1	front, 1 internal (secure)
	<b>NOTE:</b> PS/2 ports have b	een removed for NIC e	expansion.
Industry Standard	ACPI 2.0b Compliant		
Compliance	PCI 2.2 Compliant		
	PXE Support		
	WOL Support		
	Microsoft <sup>®</sup> Logo certifica	ations	
	USB 1.1 and 2.0 Complia	nt	

SMBIOS 2.6.1

Standard Features	
Server Power Cords	All Pre-configured Models servers ship with a high voltage server to PDU power cord. Localized cables may be included with geographic specific models in other world regions. <b>NOTE:</b> ProLiant DL servers do not ship standard with NEMA power cords that allow connection to 110V US wall outlets in a home or office. ProLiant DL servers are primarily connected to PDU's in data center racks so they shi standard with only a PDU power cord (416151-B21). If a user wishes to power a ProLiant DL server using a standard wall receptacle (NEMA-15), the NEMA power cord must be ordered separately and the server will be shipped with both cords. If the order is a Factory-Integration or CTO order only the NEMA-15 power will be shipped. See Power Cords in the Additional Options section below for selection for your region.
Common Slot Power Supplies	HP's Common Slot (CS) Power Supply bay design provides the customer with commonality in power supplies across multiple platforms, saving on the cost of spares and allows HP to offer multiple power solutions to fit the customers' needs. Many HP ProLiant Servers come with high-efficiency CS Power Supplies. HP's new CS power supplies are designed to provide power efficiency without degrading performance of the ProLiant. Power Supplies will have efficiency ratings up to 94%. There are multiple CS power output options available allowing you to "right-size" the most appropriate power supply option for your server configuration. Check the Power Supplies section for power sizes supported. To make sure you select the correct power supply to meet your configuration, we suggest that you use the HP Power Advisor to "right-size" a power supply option for your configuration. All HP Common Slot power sources are UL, CE Mark Compliant, Hot Plug and support redundant configurations. The HP Power Advisor is located at: www.hp.com/go/hppoweradvisor
	<ul> <li>NOTE: All HP Common Slot Power Supplies are not supported by all ProLiant Servers. Please check your server QuickSpecs to confirm support by that server.</li> <li>HP's CS power supplies support multiple energy efficiency initiatives including Climate Savers Computing Initiative (CSCI) and ECOS Consulting/80PLUS ratings for Silver, Gold, and Platinum power efficiency. Additionally server models that meet efficiency requirements for Energy Star compliance will be published once testing has</li> </ul>
	been completed. HP's -48VDC power supply is designed for those environments that require DC Voltage to operate. This power supply supplies up to 1200Watts of power on 48 Volts DC and comes with a DC power cable.
	Redundant Power: Optional (1+ 1 or n+n redundant) power supplies can be purchased through power supply option kits (see Redundant Options for part numbers).
System Fans	3 fan modules ship standard in 1 processor models 4 fan modules ship standard in 2 processor models Fan redundancy standard with all modules <b>NOTE:</b> The processor option kit contains 1 additional fan module, when upgrading from a 1 processor to two processor models. A Fan Module Option kit can also be purchased separately for use with PCI Graphics card upgrades. See HP PCI Thermal Power Kit (519254-B21) in the Core Options section.
Required Cabling	For required cabling information, refer to the Web site at: <a href="https://www.hp.com/servers/dl360-g7">www.hp.com/servers/dl360-g7</a>

Standard Features	
Operating Systems and Virtualization Software Support for ProLiant Servers	Microsoft Windows Server Red Hat Enterprise Linux (RHEL) SUSE Linux Enterprise Server (SLES) Oracle Solaris VMware 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 of OS Support Site at: http://www.hp.com/go/ossupport
Graphics	Integrated ATI ES1000, 32MB video standard
	<ul> <li>16 bit color: maximum resolution of 1600 x 1200</li> <li>32 bit color: maximum resolution of 1280 x 1024</li> </ul>
	<b>NOTE:</b> Maximum resolution available via iLO 3 remote console for ProLiant is 1280 x 1024 (for 32 bit color) and 1600 x 1200 (DVR max resolution). <b>NOTE:</b> DL360 G7 supports an HP Quadro 4000 PCIe Graphics Adapter Kit (655933-B21), selection of which requires HP PCI Thermal Power Kit (519254-B21), as well as a choice of a higher power HP Common Slot Pwr
	Supply Kit. <b>NOTE:</b> Please see the HP Power Advisor for estimated power consumption of your individual system configuration prior to installing GPUs. The HP Power Advisor is located at: www.hp.com/go/hppoweradvisor.
Form Factor	1U Rack form factor (1.75"), less than 28 inches (70.5 cm) deep
HP Insight management	HP Service Pack for ProLiant HP Service Pack for ProLiant (SPP) and HP Smart Update Manager (HP SUM) version 5 provide a new, comprehensive approach to firmware and system software maintenance. Together they provide better operating stability and ensure maximum uptime. The SPP will be updated at a predictable cadence, typically coinciding with new HP server hardware launches. By enabling firmware to be
	updated online and integrating firmware and system software updates in one operation HP SUM and the SPP offer faster updates of individual servers and dramatically faster updates of entire BladeSystem enclosures. Further improving system uptime and stability is the fact that HP provides 12 months of support on each Service Pack for ProLiant.
	operation HP SUM and the SPP offer faster updates of individual servers and dramatically faster updates of entire BladeSystem enclosures. Further improving system uptime and stability is the fact that HP provides 12 months of support on

Standard Features		
		in interaction with the BladeSystem enclosure components (Onboard Administrate and Virtual Connect). This testing ensures the highest quality as well as providing the input for HP SUM to deploy updates taking into account all interdepencies, when determining the correct updates and order of update deployment.
		The Service Pack for ProLiant (which includes HP SUM 5) can be downloaded from: www.hp.com/go/spp/download. More information can be found: http://www.hp.com/go/spp and http://www.hp.com/go/hpsum
	HP Insight Foundation	Insight Foundation is being baselined at version v8.70 which means the following:
		<ul> <li>Its Media Kit (contains 2 SmartStart CDs, the Firmware DVD, and the Management DVD) will continue to ship with all supported ProLiant G7 or earlier BTO servers until the last supported server is no longer shipping.</li> <li>The Media Kit will not be updated past version 8.70.</li> <li>ProLiant G7 or earlier CTO servers are able to order the Media Kit with the understanding that the media is not updated. Please check specific server QuickSpecs for availability of CTO Kit.</li> <li>PSP and Firmware DVD downloads will be updated through 2Q 2012 at the HP Insight Foundation Suite for ProLiant downloads tab: http://www.hp.com/go/foundation</li> </ul>
		Customers are urged to use the replacement product, HP Service Pack for ProLiant, instead of Insight Foundation Suite which is found at these location: www.hp.com/go/spp www.hp.com/go/spp/download
	HP Integrated Lights-Out 3 (iLO 3)	HP Integrated Lights-Out 3 (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
Security	Power-on password Keyboard password QuickLock, Network Server I Serial interface control Administrator's password iLO 3 (Integrated Lights-Out iLO 3 can be disabled via a G iLO Advanced supports dire	: 3) has 12 customizable user accounts and SSL encryption lobal Setting

#### **Standard Features**

Warranty

This product is covered by a global limited warranty and supported by HP Services and a worldwide network of HP Authorized Channel Partners resellers. 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 warranty; refer to the specific hard drive QuickSpec for details.

**NOTE:** 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

### HP ProLiant DL360 Generation 7

Optional	Features
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HP Insight management	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. For more information, see http://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, see: http://www.hp.com/services/insight
	HP iLO Advanced	HP Integrated Lights-Out Advanced License a product option, providing smart remote server management without compromise. iLO Advanced unlocks the full set of remote administration functionality for all HP ProLiant servers by activating the full Virtual Keyboard Video and Mouse remote console, multi-user collaboration, console record and replay, GUI-based and scripted virtual media and virtual folders, and enhanced security and power management functionality. For more information, see: http://www.hp.com/go/iloadvance
	HP Insight Dynamics for ProLiant	HP Insight Dynamics for ProLiant, a product option, is advanced infrastructure management software that enables IT staff to instantly adjust their environments to meet dynamic business demands by provisioning, optimizing and protecting complex infrastructure in minutes. It's a powerful toolkit, integrated-by-design, that accelerates complex technology projects and simplifies daily operations, transforming data center economics. With Insight Dynamics IT professionals can plan capacity and power continuously, balance workloads 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 benefits, it also provides a cost-effective disaster recovery for physical and virtual environments that works with HP 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.
		<b>NOTE:</b> 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 SUSE Linux Enterprise Server, 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 HPC Enterprise Edition suite of tools including the LSF workload scheduler, the HP-MPI parallelization library. Also included are 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		
Whether you need to solve a specific data protection, archiving, or storage command and control challenge, or deliver on strategic consolidation, compliance, or continuity initiatives, look no further than HP storage software Our storage software helps you reduce costs, simplify storage infrastructure, protect vital assets and respond faster to business opportunities.			
Storage software that gets	the job done:		
<ul> <li>Whether you're a large cost-effectively prote</li> <li>Data Archive and Migher HP's storage software application performation data to lower cost stema to low</li></ul>	ge enterprise or a smaller business, HP data protection and recovery software will tect you against disaster and ensure business continuity. gration Software re enables you to comply with data retention and retrieval requirements, improve ance, and reduce costs by efficiently migrating infrequently accessed or less valuable corage. anagement Software (SRM) the management software reduces operational costs and provides the command and rou need to efficiently manage and visualize your physical and virtual environments. Fitware ed and host-based replication software for use in disaster recovery, testing, ment and reporting. agement Software tment in HP storage and networking with software that enables hardware-specific rmance tuning and connectivity management.		
	n available Storage Software including QuickSpecs, please see: software.		
to product and HP support devices remotely monitore efficiently track your IT sup	capability available through the HP Support Center portal for one stop, secure access information specific to your IT environment. Insight Online can automatically display ed by HP Insight Remote Support. With Insight Online's easy navigation you can oport contracts and device status from anywhere and at anytime. Aline		
experience consist of using integrated solution. The Pr based automated IT suppo	ovative, automated monitoring tools and proactive services. The HP Proactive Insight I Insight Online, Insight Remote Support, and Proactive Care Support Service as one oactive Insight experience provides you with expert advice and personalized, cloud- rt, helping to prevent unplanned down time and solve problems quickly. For more .com/go/proactiveinsightexperience		
	<ul> <li>Whether you need to solve deliver on strategic consoli Our storage software helps faster to business opportuit</li> <li>Storage software that gets</li> <li>Data Protection and Whether you're a large cost-effectively prot</li> <li>Data Archive and Mig HP's storage software application performa data to lower cost st</li> <li>Storage Resource Ma HP's storage resource control foundation y</li> <li>Data Replication Soft HP offers array-base application developm</li> <li>Storage Device Mana Maximize your invests configuration, perfor</li> <li>HP StoreVirtual VSA With HP StoreVirtual disconnected physica capacity.</li> <li>NOTE: For more information www.hp.com/go/storage/sto/storage/storage/storage/storage/storage/storage/storage/stor</li></ul>		

<b>Optional Features</b>	
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 for your specific server model please contact your sales representative or go to: http://www.hp.com/go/factory-express.
HP Simple Configurator	SCE is a guided self service tool to help sales and non technical people provide customers with initial configurations in 3 to 5 minutes. You may then send the configuration on for configuration help, or use in your existing ordering processes. If you require "custom" rack configuration or configuration for products not available in SCE, 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 Technology Services for Industry Standard Servers and BladeSystem

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

#### What HP ProLiant and BladeSystem Services can do for you

HP ProLiant and BladeSystem Services can help you design, deploy, test, integrate, support, and manage IT and infrastructure solutions. This way, HP proposes services solutions that include more than just uplift of base warranty. You can get the support you need by choosing from one of a number of service packaged solutions we have designed to address wider set of customer support needs:.

HP Technology Services meets business challenges with services offered in three packages -**Optimized Care Package, Standard Care Package, and Basic Care Package** - available for each product group. Such packaged solutions enable customers to optimize technology operations, minimize risk and drive better business outcomes with easy-to-buy, easy-to-use scalable support packages for servers, storage, networking and software.

#### Optimized Care Package Supports maintaining servers at optimum performance availability

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

#### HP Installation and Startup for Insight Control Software

Provides for the deployment and basic configuration of HP Insight Control on HP ProLiant ML and DL series servers or HP BladeSystem servers http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA0-9972ENW.pdf

#### **3-Year HP Critical Advantage**

Provides end-to-end infrastructure support solution for business critical applications running on virtualized/x86 infrastructures, enabling the customers to cost effectively build, operate, and continuously improve their IT environment http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=4AA3-1772ENW

Additional Services: Microsoft or Linux or VMware education courses + Facility & technology environmental assessment services + Energy Efficiency Design, Factory Express

#### Standard Care Package Package that maintains high level of server availability

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

#### HP Installation and Startup for Insight Control Software

Provides for the deployment and basic configuration of HP Insight Control on HP ProLiant ML and DL series servers or HP BladeSystem servers http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA0-9972ENW.pdf

#### 3-Year HP 6 hour Hardware Support Onsite Call-to-Repair Service

Provides an 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 hours of the initial service request to the HP Global Solution Center

http://h20195.www2.hp.com/V2/GetPDF.aspx/5982-6547EN.pdf

	<b>3-Year , HP 24x7 Software Support for Insight Control</b> Provides for the deployment and basic configuration of HP Insight Control on HP ProLiant ML and DL series servers or HP BladeSystem servers http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-6645EEE.pdf
	<b>Additional Services</b> - Software OS (Microsoft, Linux (SUSE/Red Hat) & VMware Installation & Start Up, and Software Support; Install and Startup Services for Insight Control; Microsoft or Linux or VMware education courses; +30 Proactive Select Credits, Factory Express
Basic Care Package	Basic Care Package: delivers minimum recommended support service level
	<b>HP ProLiant Server Hardware Installation</b> 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 http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-9356EN
	<b>3-Year HP 24x7 4 hour Response, Hardware Support Onsite Service</b> Provides for the deployment and basic configuration of HP Insight Control on HP ProLiant ML and DL series servers or HP BladeSystem servers http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA0-9972ENW.pdf
	<b>Additional Services</b> : Software OS (Microsoft, Linux (SUSE/Red Hat) & VMware Installation & Start Up and Software Support); +10 Proactive Select Credits, Factory Express
Insight Remote Support	The packages include HP Insight Remote Support that uses proven technology to deliver secure, reliable 24x7 remote monitoring, diagnoses, and problem resolution. It is available at no additional cost to all warranty, HP Care Pack Service, and service agreement customers.
For more information	To learn more on HP ProLiant servers and HP BladeSystem servers, please contact your HP sales representative or HP Authorized Channel Partner. Or visit: http://www.hp.com/services/proliant

### **Pre-configured Models**

**NOTE:** For the Standard Features shipped in the "Factory Integrated Models", please see the "Configuration Information – Factory Integrated Models" section.

**NOTE:** Pre-configured models ship with the configurations below. Options can be selected from the Core or Additional options section of this QuickSpecs.

**NOTE:** HP does not allow factory integration of options into pre-configured models. Any additional options purchased will be shipped separately.

**NOTE:** If you desire a custom configuration please see "Configuration Information – Factory Integrated Models" section of this QuickSpecs. **NOTE:** Not all models are available in all regions. Check with your local country HP offices for availability.

### **Performance Models**

Six-Core Model HP ProLiant DL360 G7 X5675 2P 12GB-R P410i/1GB FBWC 8 SFF	Processor(s)	(2) Intel® Xeon® X5675 (3.06GHz/6-core/12MB/95W, DDR3-1333, HT Turbo 2/2/2/2/3/3) Processors (2) Intel® Xeon® X5650 (2.66GHz/6-core/12MB/95W DDR3-1333, HT Turbo 2/2/2/2/3/3) Processors
SAS/SATA 460W PS Svr	Cache Memory	12MB (1 x 12MB) Level 3 cache
636365-xx1	Memory	12 GB (6 x 2 GB) PC3-10600R (DDR3-1333) Registered DIMMs <b>NOTE:</b> Total of 18 DDR3 DIMM slots.
HP ProLiant DL360 G7 X5650 2P 12GB-R	Network Controller	Two HP NC382i Dual Port Multifunction Gigabit Server Adapter (4 x 1Gb Ports)
P410i/1GB FBWC 8 SFF 460W 92 EFF RPS IC Svr	Storage Controller	HP Smart Array P410i/1GB FBWC
579239-xx1	Hard Drive	None ship standard
	Internal Storage	8 SFF SAS/SATA HDD Bays
	Optical Drive	Not available for 8 drive models
	PCI-Express Slots	PCIe 2.01-full-length, full-height and 1-low profile
	Power Supply	Two 460W Common Slot Gold Hot Plug Power Supplies, redundant
	Fans	4 total fans, redundancy standard
	Insight Control	HP Insight Control No Media single server license, including 1 year of 24x7 Technical Support and Updates
	Form Factor	1U Rack form factor (1.75"), less than 28 inches (70.5 cm) deep
	Warranty	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response.

### **Pre-configured Models**

### **Base Models**

Dase mouels		
Six-Core Models HP ProLiant DL360 G7 E5649 1P 6GB-R P410i/256 4 SFF 460W RPS Server	<b>Processor(s)</b> One of the following depending on Model	(1) Intel® Xeon® E5649 (2.53GHz/6-core/12MB/80W, DDR3-1333, HT Turbo 1/1/1/1/2/2) Processor (1) Intel® Xeon® E5645 (2.40GHz/6-core/12MB/80W, DDR3-1333, HT Turbo 1/1/1/1/2/2) Processor
633776-xx1	Cache Memory	12MB (1 x 12MB) Level 3 cache
HP ProLiant DL360 G7	Memory	6 GB (3 x 2 GB) PC3-10600R (DDR3-1333) Registered DIMMs <b>NOTE:</b> Total of 18 DDR3 DIMM slots.
E5645 1P 6GB-R P410i/256 4 SFF 460W RPS Server 633777-xx1	Network Controller	Two HP NC382i Dual Port Multifunction Gigabit Server Adapter (4 x 1Gb Ports)
055777-881	Storage Controller	HP Smart Array P410i/256MB Controller
	Hard Drive	None ship standard
	Internal Storage	4 SFF SAS/SATA HDD Bays (with optional 4SFF HDD upgrade)
	Optical Drive	None ship standard
	PCI-Express Slots	PCIe 2.01-full-length, full-height and 1-low profile
	Power Supply	One 460W Common Slot Gold Hot Plug Power Supply
	Fans	3 total fans redundancy standard
	Form Factor	1U Rack form factor (1.75"), less than 28 inches (70.5 cm) deep
	Warranty	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response.

### **Entry Models**

Quad-Core Models HP ProLiant DL360 G7 E5606 1P 4GB-R P410i/ZM 4	<b>Processor(s)</b> One of the following depending on Model	(1) Intel® Xeon® E5606 (2.13GHz/4-core/8MB/80W, DDR3-800) Processor
<b>SFF 460W RPS Server</b> 633778-xx1	<b>Cache Memory</b> One of the following depending on Model	4MB (1 x 4MB) Level 3 cache
	Memory	4 GB (2 x 2 GB) PC3-10600R (DDR3-1333) Registered DIMMs <b>NOTE:</b> Total of 18 DDR3 DIMM slots.
	Network Controller	Two HP NC382i Dual Port Multifunction Gigabit Server Adapter (4 x 1Gb Ports)
	Storage Controller	HP Smart Array P410i/Zero Memory Controller
	Hard Drive	None ship standard
	Internal Storage	4 SFF SAS/SATA HDD Bays (with optional 4SFF HDD upgrade)
	Optical Drive	None ship standard
	PCI-Express Slots	PCIe 2.01-full-length, full-height and 1-low profile
	Power Supply	One 460W Common Slot Gold Hot Plug Power Supply
	Fans	3 total fans redundancy standard
	Form Factor	1U Rack form factor (1.75"), less than 28 inches (70.5 cm) deep
	Warranty	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response.

### **Pre-configured Models**

xx=42

xx=AA

### **Efficiency Models**

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Quad-Core Models HP ProLiant DL360 G7	Processor(s)	(1) Intel® Xeon® L5630 (2.13GHz/4-core/12MB/40W, DDR3-1066, HT Turbo 1/1/2/2) Processor		
L5630 1P 4GB-U P410i/ZM 4	Cache Memory	12MB (1 x 12MB) Level 3 cache		
SFF 460W PS Efficiency Server	Memory	4 GB (2 x 2 GB) PC3-10600E (DDR3-1333) Unbuffered Memory <b>NOTE:</b> Total of 18 DDR3 DIMM slots.		
579242-xx1	Network Controller	Two HP NC382i Dual Port Multifunction Gigabit Server Adapter (4 x 1Gb Ports)		
	Storage Controller	HP Smart Array P410i/Zero Memory Controller		
	Hard Drive	None ship standard		
	Internal Storage	4 SFF SAS/SATA HDD Bays (with optional 4SFF HDD upgrade)		
	Optical Drive PCI-Express Slots	None ship standard		
		PCIe 2.01-full-length, full-height and 1-low profile		
	Power Supply	One 460W Common Slot Platinum Hot Plug Power Supply		
	Fans	3 total fans redundancy standard		
	Form Factor	1U Rack form factor (1.75"), less than 28 inches (70.5 cm) deep		
	Warranty	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response.		
Country Code Key	xx=00	US		
	xx=20	Brazil		
	xx=29	Japan		
	xx=37	APD		

Europe PRC

### **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 configurable product offerings and requirements.

NOTE: Configure-to-order (CTO) servers must start with a CTO Chassis.

NOTE: FIO indicates that this option is only available as a factory installable option.

### Step 1: Base Configuration (choose one of the following configurable models)

HP Models	HP ProLiant DL360 G7 Configure-to-order Server	579237-B21
	HP ProLiant DL360 G7 Performance Configure-to-order Server <b>NOTE:</b> This Model is sold in CTO only and with Dual X5690 or X5687 130Watt processors only.	641749-B21
	Factory Integrated Model ships with:	
	Two HP NC382i Dual Port Multifunction Gigabit Server Adapter (4x1Gb Ports) HP Smart Array P410i/Zero Memory Controller HP Integrated Lights-Out 3 (iLO 3) embedded 2 PCIe 2.0 Slots - 1 full-length, full-height x16 and 1 low-profile x8. 4 bays for Hot-Plug SAS/SATA Drives(Factory Option for up to 8) 4 USB ports(1-front,1-internal, 2-rear) 1 Internal Secure Digital(SD) slot 3 fan modules; fan redundancy standard 1U Rack form factor (1.75"), less than 28 inches (70.5 cm) deep	

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

HP Processors	Six-Core Processors	
	HP DL360 G7 Intel® Xeon® X5690 (3.46GHz/6-core/12MB/130W) FIO 2-processor Kit <b>NOTE:</b> This kit includes two processors.	644131-L21
	HP DL360 G7 Intel® Xeon® X5675 (3.06GHz/6-core/12MB/95W) FIO Processor Kit	633781-L21
	HP DL360 G7 Intel® Xeon® X5670 (2.93GHz/6-core/12MB/95W) FIO Processor Kit	588062-L21
	HP DL360 G7 Intel® Xeon® X5660 (2.80GHz/6-core/12MB/95W) FIO Processor Kit	588064-L21
	HP DL360 G7 Intel® Xeon® X5650 (2.66GHz/6-core/12MB/95W) FIO Processor Kit	588066-L21
	HP DL360 G7 Intel® Xeon® E5649 (2.53GHz/6-core/12MB/80W) FIO Processor Kit	633785-L21
	HP DL360 G7 Intel® Xeon® E5645 (2.40GHz/6-core/12MB/80W) FIO Processor Kit	633787-L21
	Quad-Core Processors	
	HP DL360 G7 Intel® Xeon® X5687 (3.60GHz/4-core/12MB/130W) FIO 2-processor Kit <b>NOTE:</b> This kit includes two processors.	644130-L21
	HP DL360 G7 Intel® Xeon® X5672 (3.20GHz/4-core/12MB/95W) FIO Processor Kit	633783-L21
	HP DL360 G7 Intel® Xeon® E5606 (2.13GHz/4-core/8MB/80W) FIO Processor Kit	633789-L21
	HP DL360 G7 Intel® Xeon® E5603 (1.60GHz/4-core/4MB/80W) FIO Processor Kit	633791-L21
	<b>NOTE:</b> Up to 2 processors supported. Performance Model configurations include two processors.	
	<b>NOTE:</b> HT indicates that the processor model supports Intel® /Hyper-Threading Technology	
	NOTE: Turbo indicates the maximum potential frequency increment when using Intel®	
	Turbo Boost Technology, with 4,3,2 and 1 cores active.	
	<b>NOTE:</b> DDR3 speed is the maximum memory speed of the processor. Actual memory	
	speed may depend on the quantity and type of DIMMs installed.	
	<b>NOTE:</b> For the Intel 5600 Series, the letter preceding the model number indicated the performance/wattage of the processor. "X" denotes High Performance/Wattage; "E"	

### **Configuration Information - Factory Integrated Models**

-	denotes Enterprise Performance/Wattage (Mainstream); and "L" denotes Lower Wattage.	
HP Memory	Registered DIMMs (RDIMMs)	
	HP 2GB (1x2GB) Dual Rank x8 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit	500656-B21
	HP 4GB (1x4GB) Dual Rank x4 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit	500658-B21
	HP 4GB (1x4GB) Single Rank x4 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit	593339-B21
	HP 4GB (1x4GB) Single Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9 Low Power Memory Kit	604504-B21
	<b>NOTE:</b> Low Voltage DIMMs can only be used with Intel <sup>®</sup> Xeon <sup>®</sup> processor 5600 series processors.	
	HP 8GB (1x8GB) Dual Rank x4 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit	500662-B21
	HP 8GB (1x8GB) Dual Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9 Low Power Memory Kit	604506-B21
	<b>NOTE:</b> Low Voltage DIMMs can only be used with Intel <sup>®</sup> Xeon <sup>®</sup> processor 5600 series processors.	
	HP 16GB (1x16GB) Quad Rank x4 PC3-8500 (DDR3-1066) Registered CAS-7 Memory Kit	500666-B21
	HP 16GB (1x16GB) Dual Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9 LP Memory Kit	627812-B21
	HP 32GB (1x32GB) Quad Rank x4 PC3L-8500 (DDR3-1066) Registered CAS-7 LP Memory Kit	627814-B21
	Unbuffered with ECC DIMMs (UDIMMs)	
	HP 1GB (1x1GB) Single Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit	500668-B21
	HP 2GB (1x2GB) Dual Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit	500670-B21
	HP 4GB (1x4GB) Dual Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit	500672-B21
	HP 4GB (1x4GB) Dual Rank x8 PC3L-10600 (DDR3-1333) Unbuffered CAS-9 Low Power Memory Kit	619488-B21
	NOTE: All DDR3 memory option kits consist of one DIMM per kit. For detailed memory configuration rules and guidelines, please use the Online DDR3 Memory Configuration Tool: www.hp.com/go/ddr3memory-configurator. NOTE: For more information on ProLiant Energy Efficient Features, see: www.hp.com/go/proliant-energy-efficient NOTE: PC3L is a low voltage memory.	
<b>HP Power Supplies</b>	NOTE: Most DL360 Series Servers operate within the 460Watt range of the base model	
	<ul> <li>Common Slot Power Supply. However, prior to making a power supply selection it is highly recommended that the HP Power Advisor is run to determine the right size power supply for your server configuration. The HP Power Advisor is located at: www.hp.com/go/hppoweradvisor.</li> <li>Standard Power Supplies only come with "PreConfigured Models" shown previously and are defined in those lists of options.</li> </ul>	
	HP 460W Common Slot Gold Hot Plug Power Supply Kit NOTE: Standard on most models.	503296-B21
	HP 460W Common Slot Platinum Hot Plug Power Supply Kit	593188-B21
	HP 750W Common Slot Gold Hot Plug Power Supply Kit	512327-B21
	HP 750W Common Slot Platinum Hot Plug Power Supply Kit NOTE: Standard on Efficiency Model Server.	593831-B21
	HP 1200W Common Slot Silver Hot Plug Power Supply Kit	500172-B21
	HP 1200W Common Slot -48VDC Hot Plug Power Supply Kit <b>NOTE:</b> DC power supplies contain a -48V DC power cord designed for in rack DC power rectifiers.	437573-B21

### **Configuration Information - Factory Integrated Models**

**NOTE:** Option Kits contain optional power supply, an IEC power cable and PDU IEC cables.

### **Step 3: Choose Additional Factory Integratable Options**

HP Storage Controllers	<b>NOTE:</b> For additional Cache Memory Options for the standard integrated Smart Array (P410i) see HP Storage Controllers section in Step 4: below. <b>NOTE:</b> For additional Storage Controller Options select from these options. See Additional Options in next section below for more details.	
	HP Smart Array P212/256 BBWC 1-ports Int/1-ports Ext PCIe x8 FIO SAS Controller	491191-B21
	HP Smart Array P411/256 BBWC 2-ports Ext PCIe x8 FIO SAS Controller	491193-B21
	<b>NOTE:</b> For more information on optional controllers. http://h18004.www1.hp.com/products/servers/proliantstorage/ arraycontrollers/index.html	
HP Performance Packs	The HP ProLiant DL360 G7 performance packs are necessary to configure a HP ProLiant DL360 G7 Performance Model. HP ProLiant DL360 G7 Performance model includes the latest performance technologies and enterprise class availability features pre-installed for convenience and value. The performance pack includes a 2nd processor, redundant 460w power supplies, 1G of FBWC, a second HDD backplane for full 8 SFF/SSD hard drive support and Insight Control license.	
	HP DL360G7 X5650 High Performance Model FIO Performance Pack	593829-B21
	HP DL360 G7 X5675 FIO High Performance Pack	636366-B21
HP Insight Software	HP Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle Single Server FIO License	C6N36A

### **Step 4: Choose Additional Options for Factory Integration**

**NOTE:** For additional options, please refer to the "Core Options" and "Additional Options" sections below.

### **Core Options**

**NOTE:** Some options may not be integrated at the factory. To ensure only valid configurations are ordered, HP recommends the use of an HP approved configurator. Contact your local sales representative for additional information.

HP Unique Options	HP DL360 G6/G7 Small Form Factor Hard Drive Backplane Kit <b>NOTE:</b> Integrated Optical/DVD cannot be used with this option. Optional External USB CD/DVD Drive available.	516966-B21
	HP DL360G6 Slimline 12.7mm SATA DVD Optical Drive	532066-B21
	HP DL360G6 Slimline 12.7mm SATA DVD-RW Optical Drive <b>NOTE:</b> Integrated DVD/Optical drive option is supported on 4 Hard drive models only.	532068-B21
	HP DL360 G6 PCI-X Riser Kit <b>NOTE:</b> For PCI-X Card support only. <b>NOTE:</b> The PCI-X Riser option is available to convert the full-length, full-height PCI- Express slot to PCI-X slot for PCI-X cards only.	518824-B21

**HP Processor** 

#### Six-Core Processors

HP DL360 G7 Intel® Xeon® X5675 (3.06GHz/6-core/12MB/95W) Processor Kit	633781-B21
HP DL360 G7 Intel® Xeon® X5670 (2.93GHz/6-core/12MB/95W) Processor Kit	588062-B21
HP DL360 G7 Intel® Xeon® X5660 (2.80GHz/6-core/12MB/95W) Processor Kit	588064-B21
HP DL360 G7 Intel® Xeon® X5650 (2.66GHz/6-core/12MB/95W) Processor Kit	588066-B21
HP DL360 G7 Intel® Xeon® E5649 (2.53GHz/6-core/12MB/80W) Processor Kit	633785-B21
HP DL360 G7 Intel® Xeon® E5645 (2.40GHz/6-core/12MB/80W) Processor Kit	633787-B21
HP DL360 G7 Intel® Xeon® L5640 (2.26GHz/6-core/12MB/60W) Processor Kit	588078-B21
Quad-Core Processors	
HP DL360 G7 Intel® Xeon® X5672 (3.20GHz/4-core/12MB/95W) Processor Kit	633783-B21
HP DL360 G7 Intel® Xeon® E5640 (2.66GHz/4-core/12MB/80W) Processor Kit	588068-B21
HP DL360 G7 Intel® Xeon® E5630 (2.53GHz/4-core/12MB/80W) Processor Kit	588070-B21
HP DL360 G7 Intel® Xeon® E5620 (2.40GHz/4-core/12MB/80W) Processor Kit	588072-B21
HP DL360 G7 Intel® Xeon® L5630 (2.13GHz/4-core/12MB/40W) Processor Kit	588080-B21
HP DL360 G7 Intel® Xeon® E5606 (2.13GHz/4-core/8MB/80W) Processor Kit	633789-B21
HP DL360 G7 Intel® Xeon® E5603 (1.60GHz/4-core/4MB/80W) Processor Kit	633791-B21
NOTE: Up to 2 processors supported. Performance Model configurations include two	
processors.	
<b>NOTE:</b> HT indicates that the processor model supports Intel <sup>®</sup> /Hyper-Threading Technology	
NOTE: Turbo indicates the maximum potential frequency increment when using Intel® Turbo	
Boost Technology, with 6,5,4,3,2 and 1 cores active.	
<b>NOTE:</b> DDR3 speed is the maximum memory speed of the processor. Actual memory speed	
may depend on the quantity and type of DIMMs installed.	
<b>NOTE:</b> For the Intel 5600 Series, the letter preceding the model number indicated the	
performance/wattage of the processor. "X" denotes High Performance/Wattage; "E" denotes	
Enterprise Performance/Wattage (Mainstream); and "L" denotes Lower Wattage.	

Core Options		
HP Memory	Registered DIMMs (RDIMMs)	
	HP 2GB (1x2GB) Dual Rank x8 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit	500656-B21
	HP 4GB (1x4GB) Dual Rank x4 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit	500658-B21
	HP 4GB (1x4GB) Single Rank x4 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit	593339-B21
	HP 4GB (1x4GB) Single Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9 Low Power Memory Kit	604504-B21
	<b>NOTE:</b> Low Voltage DIMMs can only be used with Intel <sup>®</sup> Xeon <sup>®</sup> processor 5600 series processors.	
	HP 8GB (1x8GB) Dual Rank x4 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit	500662-B21
	HP 8GB (1x8GB) Dual Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9 Low Power Memory Kit	604506-B21
	<b>NOTE:</b> Low Voltage DIMMs can only be used with Intel <sup>®</sup> Xeon <sup>®</sup> processor 5600 series processors.	
	HP 16GB (1x16GB) Quad Rank x4 PC3-8500 (DDR3-1066) Registered CAS-7 Memory Kit	500666-B21
	HP 16GB (1x16GB) Dual Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9 LP Memory Kit	627812-B21
	HP 32GB (1x32GB) Quad Rank x4 PC3L-8500 (DDR3-1066) Registered CAS-7 LP Memory Kit	627814-B21
	Unbuffered with ECC DIMMs (UDIMMs)	
	HP 1GB (1x1GB) Single Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit	500668-B21
	HP 2GB (1x2GB) Dual Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit	500670-B21
	HP 4GB (1x4GB) Dual Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit	500672-B21
	HP 4GB (1x4GB) Dual Rank x8 PC3L-10600 (DDR3-1333) Unbuffered CAS-9 Low Power Memory Kit	619488-B21
	<b>NOTE:</b> All DDR3 memory option kits consist of one DIMM per kit. For detailed memory configuration rules and guidelines, please use the Online DDR3 Memory Configuration Tool: www.hp.com/go/ddr3memory-configurator.	
	NOTE: Kits described as LP include Low Power DIMMs. For more information on ProLiant	
	Energy Efficient Features, see: www.hp.com/go/proliant-energy-efficient. <b>NOTE:</b> PC3L is a low voltage memory.	
HP Drive Cage Options	HP DL360 G6/G7 Small Form Factor Hard Drive Backplane Kit <b>NOTE:</b> For 4 addition HD Bays, slots 5-8. This option will work on both DL360 G6 and G7	516966-B21
	servers. <b>NOTE:</b> Optical/DVD cannot be used with this option.	
HP Optical Drives	HP DL360G6 Slimline 12.7mm SATA DVD Optical Drive	532066-B21
	HP DL360G6 Slimline 12.7mm SATA DVD-RW Optical Drive	532068-B21
	<b>NOTE:</b> Integrated DVD/Optical drive option is supported on 4 Hard drive models only.	

#### **Core Options**

#### **HP Hard Drives**

**NOTE:** The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components. **NOTE:** Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details.

#### SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives

SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives	
HP 1.2TB 6G SAS 10K SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive	693648-B21
HP 900GB 6G SAS 10K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive	619291-B21
HP 600GB 6G SAS 10K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive	581286-B21
HP 450GB 6G SAS 10K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive	581284-B21
HP 300GB 6G SAS 15K rpm SFF (2.5-inch) Hot Plug Enterprise 3 yr Warranty Hard Drive	627117-B21
HP 300GB 6G SAS 10K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive	507127-B21
HP 146GB 6G SAS 15K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive	512547-B21
SAS Hot Plug SFF (2.5-inch) Midline (MDL) Drives	
HP 1TB 6G SAS 7.2K rpm SFF (2.5-inch) Dual Port Midline 1yr Warranty Hard Drive	605835-B21
HP 500GB 6G SAS 7.2K rpm SFF (2.5-inch) Dual Port Midline 1yr Warranty Hard Drive	507610-B21
<b>NOTE:</b> SAS Enterprise drives have a 3 year warranty. Please see the QuickSpecs for Technical Specifications and additional information:	
http://h18000.www1.hp.com/products/quickspecs/12244_div/12244_div.html (Worldwide)	
SATA Hot Plug SFF (2.5-inch) Midline (MDL) Drives	
HP 1TB 3G SATA 7.2K rpm SFF (2.5-inch) Hot Plug Midline 1yr Warranty Hard Drive	625609-B21
HP 500GB 3G SATA 7.2K rpm SFF (2.5-inch) Midline 1yr Warranty Hard Drive	507750-B21
<b>NOTE:</b> SATA drives have a 1 year warranty. Please see the QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/13021_div/13021_div.html (Worldwide)	
SATA Hot Plug 2.5" Enterprise Mainstream Solid State Drives	
HP 400GB 3G SATA MLC SFF (2.5-inch) Enterprise Mainstream 3yr Warranty Solid State Drive	636597-B21
HP 200GB 3G SATA MLC SFF (2.5-inch) Enterprise Mainstream 3yr Warranty Solid State Drive	636595-B21
HP 100GB 3G SATA MLC SFF (2.5-inch) Enterprise Mainstream 3yr Warranty Solid State Drive	636593-B21
<b>RECOMMENDATION:</b> For best performance of SSD drives it is recommended that any Smart Array Controller use a max of 4 drives. For this product a second Smart Array option can be used for the second set of 4 SSD drives.	
<b>NOTE:</b> Please see the QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/14038_div/14038_div.html (Worldwide)	
6G SAS Hot Plug Enterprise Performance Solid State Drives	
HP 400GB 6G SAS SLC SFF (2.5-inch) Enterprise Performance 3yr Warranty Solid State Drive	632494-B21
HP 200GB 6G SAS SLC SFF (2.5-inch) Enterprise Performance 3yr Warranty Solid State Drive	632492-B21
NOTE: Please see the QuickSpecs for Technical Specifications and additional information:	

**NOTE:** Please see the QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/14038\_div/14038\_div.html (Worldwide)

HP Networking       Gigabit Ethernet Adapters         HP NC112T PCI Express Gigabit Server Adapter       503746-B21         HP NC365T 4-port Ethernet Server Adapter       394794-B21         HP NC375T PCI-E Multifunction Gigabit Server Adapter       394791-B21         HP NC375T PCI-E Multifunction Gigabit Server Adapter       394791-B21         HP NC375T PCI-E Multifunction Gigabit Server Adapter       394791-B21         HP NC375T PCI Express Qual Port Multifunction Gigabit Server Adapter       458492-B21         HO Gigabit Ethernet Adapters       MOTE: A minimum of two Gigabit Server Adapter       458492-B21         HO NC382T PCI Express Qual Port Multifunction Gigabit Server Adapter       468332-B21         HO K232FP Dual Port 106bE Gigabit Server Adapter       468322-B21         HP NC525FP Dual Port 106bE Server Adapter       468322-B21         HP NC535FP 106b 2-port Ethernet Server Adapter       614203-B21         HP To GbE PCI	Core Options		
HP NC360T PCI-E Dual Port Gigabit Server Adapter     412648-821       HP NC360T PCI-E Dual Port Ethernet Server Adapter     593722-821       HP NC373T PCI-E Multifunction Gigabit Server Adapter     394791-821       HP NC373T PCI-E Multifunction Gigabit Server Adapter     394791-821       HP NC373T PCI-E Multifunction Gigabit Server Adapter     39696-821       HP NC375T PCI Express Qual Port Gigabit Server Adapter     458492-821       HP NC375T PCI Express Qual Port Gigabit Server Adapter     458492-821       HOTE: A minimum of two Gigabytes (2 6B) of server memory is required per each adapter.     NOTE: A minimum of two Gigabytes (2 6B) of server memory is required per each adapter.       NOTE: Note: Attach Cable (DAC) for copper environments or fiber transceivers and cables for fiber-optic environments must be purchased separately.     468332-821       HP NC5225FP Dual Port 1060E Server Adapter     592717-821       HP NC5525FP Dual Port 106DE Server Adapter     614203-821       NOTE: Rease see the QuickSpecs for Technical Specifications and additional information:     www.hp.com/go/ProLiantNLS       HP InfiniBand     QLogic InfiniBand 4X QDR PCI-E 62 Dual Port HCA     59221-821       HP InfiniBand     QLogic InfiniBand 4X QDR PCI-E 62 Dual Port HCA     592250-821       HP InfiniBand     HP InfiniBand 4X QDR PCI-E 62 Dual Port HCA     59282-821       HP Iof Dise PCI-E 62 Dual Port Metwork Interface Card     518824-821       NOTE: Prior to making a power supply selection it is highl	HP Networking	Gigabit Ethernet Adapters	
HP NC365T 4-port Ethernet Server Adapter593722-821HP NC373T PCI-E Multifunction 1000SX Gigabit Svr Adapter394739-821HP NC373T PCI-E Multifunction Gigabit Server Adapter394793-821HP NC375T PCI Express Quad Port Gigabit Server Adapter39493-821HP NC382T PCI Express Quad Port Gigabit Server Adapter498492-821HO Gigabit Etheret Adapter498492-821HO TE: A minimum of two Gigabityses (2 GB) of server memory is required per each adapter.NOTE: NoTE: A minimum of two Gigabityses (2 GB) of server memory is required per each adapter.NOTE: Direct Attach Cable (DAC) for copper environments or fiber transceivers and cables for fiber-optic environments must be purchased separately.68832-821HP NC523SFP 10Gb 2-port Server Adapter593717-821HP NC523SFP 10Gb 2-port Ethernet Server Adapter614203-821NOTE: Please see the QuickSpecs for Technical Specifications and additional information:www.hp.com/go/ProLiantNiCsHP InfiniBandQLogic InfiniBand 4X QDR PCI-E G2 Dual Port HCA583211-821HP InfiniBandQLogic InfiniBand 4X QDR ConnectX-2 PCIe G2 Dual Port HCA59250-821HP InfiniBandPL360 G6 PCI-X Riser Kit518824-821NOTE: Prever SuppliesNOTE: Prior to making a power supply selection it is highly recommended that the HP Power Advisor is run to determine the right size power supply Kit503296-821NOTE: Standard on most models.HP 4060W Common Slot Gid Hort Plug Power Supply Kit503296-821NOTE: Standard on Slot Gid Hort Plug Power Supply Kit503296-821NOTE: Standard on Slot Gid Hort Plug Power Supply Kit593831-821NOT		HP NC112T PCI Express Gigabit Server Adapter	503746-B21
HP NC373F PCI-E Multifunction 1000SX Gigabit Svr Adapter394793-821HP NC373T PCI-E Multifunction Gigabit Server Adapter394791-821HP NC375T PCI Express Qual Port Gigabit Server Adapter39666-821HP NC382T PCI Express Dual Port Multifunction Gigabit Server Adapter458492-82110 Gigabit Ethernet Adapters458492-821NOTE: Direct Attach Cable (OAC) for copper environments or fiber transceivers and cables for fiber-optic environments must be purchased separately.468332-821HP NCS22SFP Dual Port 100bE Gigabit Server Adapter468332-821HP NCS22SFP Dual Port 100bE Server Adapter561201-821HP NCS52SFP Dual Port 100bE Server Adapter614203-821HP NCS52SFP Dual Port 100bE Server Adapter614203-821HP NCS52SFP Dual Port Network Interface Card516937-821HP 10 GbE PCI- 62 Dual Port Network Interface Card516937-821HP 10 GbE PCI- 62 Dual Port Network Interface Card516937-821HP InfiniBandQLogic InfiniBand 4X QDR ConnectX-2 PCIe 62 Dual Port HCA583211-821HP InfiniBand 4X QDR ConnectX-2 PCIe 62 Dual Port HCA593220-821HP InfiniBand 4X QDR ConnectX-2 PCIe 62 Dual Port HCA593221-821HP InfiniBand 4X QDR ConnectX-2 PCIe 62 Dual Port HCA593221-821HP InfiniBand 4X QDR ConnectX-2 PCIe 62 Dual Port HCA593221-821HP InfiniBand 4X QDR ConnectX-2 PCIe 62 Dual Port HCA593221-821HP InfiniBand 4X QDR ConnectX-2 PCIe 62 Dual Port HCA593281-821HP InfiniBand 4X QDR ConnectX-2 PCIe 62 Dual Port HCA593281-821HP InfiniBand 4X QDR ConnectX-2 PCIe 62 Dual Port HCA593281-821 <td></td> <td>HP NC360T PCI-E Dual Port Gigabit Server Adapter</td> <td>412648-B21</td>		HP NC360T PCI-E Dual Port Gigabit Server Adapter	412648-B21
HP NC373T PCI-E Multifunction Gigabit Server Adapter394791-821HP NC373T PCI Express Quad Port Gigabit Server Adapter538696-821HP NC382T PCI Express Dual Port Multifunction Gigabit Server Adapter458492-82110 Gigabit Ethernet Adapters10 Gigabit Server MapterNOTE: A minimum of two Gigabits (2 GB) of server memory is required per each adapter. NOTE: Direct Attac Cable (0AC) for copper environments or fiber transceivers and cables for fiber-optic environments must be purchased separately. HP NC5255FP 1060 2-port Etverer Adapter468332-821HP NC5255FP 1060 2-port Etverer Adapter591201-821HP NC5255FP 1060 2-port Etverer Adapter614203-821HP NC5255FP 1060 2-port Ethernet Server Adapter614203-821HP 10 GbE PCI-e G2 Dual Port Network Interface Card516937-821HP 10 GbE PCI-e G2 Dual Port Network Interface Card516937-821HP 10 GbE PCI-e G2 Dual Port Network Interface Card516937-821HP InfiniBandQLogic InfiniBand 4X QDR ConnectX-2 PCIe G2 Dual Port HCA592520-821HP InfiniBand FDR/EN 10/40Gb Dual Port S44Q5FP Adapter649281-821NOTE: Please see the QuickSpecs for additional information: http://h1800.www1.hp.com/products/quickspecs/13078_div/13078_div.html.518824-821HP //O Expansion OptionsHP DL360 G6 PCI-X Riser Kit NOTE: Prior to making a power supply selection it is highly recommended that the HP Power Advisor is run to determine the right size power supply for your server configuration. The HP Power Advisor is located at: www.hp.com/go/hpower advisor.503296-821HP 460W Common Slot Gold Hor Plug Power Supply Kit503296-821HP 750W Common Slot Gold Hor		HP NC365T 4-port Ethernet Server Adapter	593722-B21
HP NC375T PCI Express Quad Port Gigabit Server Adapter     538696-821       HP NC382T PCI Express Dual Port Multifunction Gigabit Server Adapter     458492-821       10 Gigabit Ethernet Adapters     458492-821       NOTE: Direct Attach Cable (DAC) for copper environments or fiber transceivers and cables for fiber-optic environments must be purchased separately.     468332-821       HP NC5225FP Dual Port 10GbE Gigabit Server Adapter     468332-821       HP NC5225FP Dual Port 10GbE Server Adapter     593717-821       HP NC5255FP 10Gb 2-port Server Adapter     514203-821       HP NC5525FP 00Gb 2-port Ethernet Server Adapter     614203-821       NOTE: Please see the QuickSpecs for Technical Specifications and additional information: www.hp.com/gol/PortlaintNE     516937-821       HP 10 GbE PCI-e G2 Dual Port NCA     583211-821       HP InfiniBand     QLogic InfiniBand 4X QDR PCI-E G2 Dual Port HCA     583211-821       HP InfiniBand GNQR ConnectX-2 PCIe G2 Dual Port HCA     5932520-821       HP InfiniBand GNQR ConnectX-2 PCIe G2 Dual Port HCA     5932520-821       HP InfiniBand FDN/EN 10/406b Dual Port 544Q5FP Adapter     643281-821       NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/groducts/quickspecs/13078_div/13078_div.html.     518824-821       NOTE: Prior to making a power supply selection it is highly recommended that the HP Power Advisor is fun to determine the right size power supply for your server configuration. The HP Power Advisor is located at: www.hp.com/gol/ppoweradvisor. HP 460W		HP NC373F PCI-E Multifunction 1000SX Gigabit Svr Adapter	394793-B21
HP NC382T PCI Express Dual Port Multifunction Gigabit Server Adapter     458492-821       10 Gigabit Ethernet Adapters     NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter.       NOTE: Direct Attach Cable (DAC) for copper environments on fiber transceivers and cables for fiber-optic environments must be purchased separately.     468332-821       HP NC5225FP 10Gb 2-port Server Adapter     593717-821       HP NC5235FP 10Gb 2-port Server Adapter     581201-821       HP NC5235FP 10Gb 2-port Ethernet Server Adapter     614203-821       HP NC5255FP 10Gb 2-port Ethernet Server Adapter     614203-821       HP 10 GbE PCI-e G2 Dual Port NEtwork Interface Card     516937-821       HP 10 GbE PCI-e G2 Dual Port HCA     592520-821       HP InfiniBand 4X QDR ConnectX-2 PCIe G2 Dual Port HCA     592520-821       HP InfiniBand 500 Gw PCI-K Kit     518824-821       NOTE: Prior to making a power supply Adapter     649281-821       NOTE: Prior to making a power supply selection it is highly recommended that the HP Power     Advisor is run to determine the right size power supply for your server configuration. The		HP NC373T PCI-E Multifunction Gigabit Server Adapter	394791-B21
10 Gigabit Ethernet Adapters         NDTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter.         NDTE: Direct Attach Cable (DAC) for copper environments or fiber transceivers and cables for fiber-optic environments must be purchased separately.         HP NC5232SFP Dual Port 106bE Gigabit Server Adapter       468332-821         HP NC523SFP Dual Port 106bE Server Adapter       593717-821         HP NC525SFP 10Gb 2-port Server Adapter       518201-821         HP NC525SFP 10Gb 2-port Ethernet Server Adapter       614203-821         NDTE: Please see the QuickSpecs for Technical Specifications and additional information:       www.hp.com/op/ProLiantNLS         HP 10 GbE PCI-e G2 Dual Port Network Interface Card       518937-821         HP InfiniBand       QLogic InfiniBand 4X QDR ConnectX-2 PCle G2 Dual Port HCA       583211-821         HP InfiniBand 4X QDR ConnectX-2 PCle G2 Dual Port HCA       592520-821         HP InfiniBand 4X QDR ConnectX-2 PCle G2 Dual Port HCA       592520-821         HP InfiniBand 4X QDR ConnectX-2 PCle G2 Dual Port HCA       592520-821         HP InfiniBand 4D PDC/EKI 10/40Gb Dual Port 544QSFP Adapter       649281-821         NOTE: Please see the QuickSpecs for additional information:       http://h18000.www1.hp.com/go/hpDweradwisor.         HP //O Expansion Options       HP DL360 G6 PCI-X Riser Kit       518824-821         NOTE: Please set the QuickSpecs for Supply Sit		HP NC375T PCI Express Quad Port Gigabit Server Adapter	538696-B21
NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter.         NOTE: Direct Attach Cable (DAC) for copper environments or fiber transceivers and cables for         fiber-optic environments must be purchased separately.         HP NC5225FP Dual Port 10GbE Gigabit Server Adapter       468332-B21         HP NC5235FP 10Gb 2-port Server Adapter       581201-B21         HP NC5525FP 10Gb 2-port Server Adapter       614203-B21         NOTE: Blease see the QuickSpecs for Technical Specifications and additional information:       www.hp.com/go/ProLiantNICs         HP 10 GbE PCI-e G2 Dual Port Network Interface Card       583211-B21         HP InfiniBand       QLogic InfiniBand 4X QDR PCI-E G2 Dual Port HCA       583211-B21         HP InfiniBand 4X QDR ConnectX-2 PCIE G2 Dual Port HCA       592520-B21         HP InfiniBand 5DR/EN 10/40Gb Dual Port S44Q5FP Adapter       649281-B21         NOTE: Please see the QuickSpecs for additional information:       http://h18000.www1.hp.com/products/quickspecs/13078_div/13078_div/h13078_div.html.         HP //O Expansion Options       HP DL360 G6 PCI-X Riser Kit       518824-B21         NOTE: Prior to making a power supply selection it is highly recommended that the HP Power Advisor is forated at: www.hp.com/go/hppoweradvisor.       503296-B21         HP 460W Common Slot Fold Hot Plug Power Supply Kit       503296-B21         NOTE: Prior to making a power supply selectioni its highly recommended that the HP Power Adv		HP NC382T PCI Express Dual Port Multifunction Gigabit Server Adapter	458492-B21
NOTE: Direct Attach Cable (DAC) for copper environments or fiber transceivers and cables for         fiber-optic environments must be purchased separately.         HP NC5225FP 10Gb 2-port Server Adapter         HP NC525DSF Dual Port 10GbE Server Adapter         S1201-821         HP NC525CFP Dube 2-port Ethernet Server Adapter         S1201-821         HP NC525CFP 10Gb 2-port Ethernet Server Adapter         HP NC525CFP 10Gb 2-port Ethernet Server Adapter         NOTE: Please see the QuickSpecs for Technical Specifications and additional information:         www.hp.com/go/ProLiantNICs         HP 10 GbE PCI-e G2 Dual Port Network Interface Card         S16937-821         HP InfiniBand         QLogic InfiniBand 4X QDR PCI-E G2 Dual Port HCA         S19226-821         HP InfiniBand 4X QDR ConnectX-2 PCIe G2 Dual Port HCA         S19226-821         HP InfiniBand         PL/O Expansion Options         HP PL360 G6 PCI-X Riser Kit         NOTE: Please see the QuickSpecs for additional information:         http://h18000.www1.hp.com/go/hppower supply for your server configuration. The HP         Power Supplies       NOTE: Prior to making a power supply selection it is highly recommended that the HP Power         Advisor is nu to determine the right size power supply for your server configuration. The HP         Power Advisor is nu to determine t			
fiber-optic environments must be purchased separately.       468332-B21         HP NC5225FP Dual Port 10GbE Gigabit Server Adapter       468332-B21         HP NC5505FP Dual Port 10GbE Server Adapter       593717-B21         HP NC5505FP Dial Port 10GbE Server Adapter       614203-B21         HP NC5505FP Dial Port 10GbE Server Adapter       614203-B21         NOTE: Please see the QuickSpecs for Technical Specifications and additional information:       www.hp.com/go/ProLiantNICs         HP 10 GbE PCI-e G2 Dual Port Network Interface Card       518937-B21         HP 10 GbE PCI-e G2 Dual Port Network Interface Card       583211-B21         HP InfiniBand       QLogic InfiniBand 4X QDR PCI-E G2 Dual Port HCA       5932520-B21         HP InfiniBand PDR/EN 10/40Gb Dual Port 544Q5FP Adapter       649281-B21         NOTE: Please see the QuickSpecs for additional information:       http://h18000.www1.hp.com/products/quickspecs/13078_div/13078_div.html.         HP //O Expansion Options       HP DL360 G6 PCI-X Riser Kit       518824-B21         NOTE: Prior to making a power supply selection it is highly recommended that the HP Power Advisor is un to determine the right size power supply for your server configuration. The HP Power Advisor is located at: www.hp.com/go/hppoweradvisor.       503296-B21         NOTE: Standard on most models.       503296-B21       S017E: S18824-B21         HP 460W Common Slot Gold Hot Plug Power Supply Kit       5933188-B21       S933188-B2			
HP NC522SFP Dual Port 10GbE Gigabit Server Adapter468332-821HP NC523SFP 10Gb 2-port Server Adapter593717-821HP NC52SSFP 10Gb 2-port Server Adapter614203-821HP NC552SFP 10Gb 2-port Ethernet Server Adapter614203-821HP NC52SFP 10Gb 2-port Ethernet Server Adapter614203-821HP NC552SFP 10Gb 2-port Ethernet Server Adapter614203-821HP 10 GbE PCI-e G2 Dual Port Network Interface Card516937-821HP 10 GbE PCI-e G2 Dual Port Network Interface Card583211-821HP InfiniBandQLogic InfiniBand 4X QDR PCI-E G2 Dual Port HCA5932520-821HP InfiniBand 4X QDR ConnectX-2 PCIe G2 Dual Port HCA592520-821HP InfiniBand FDR/EN 10/40Gb Dual Port 544QSFP Adapter649281-821NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/13078_div.html.518824-821HP I/O Expansion OptionsHP DL360 G6 PCI-X Riser Kit NOTE: To convert full-length, full-height PCI-Express slot to PCI-X slot for PCI-X cards only.518824-821HP Fower SuppliesNOTE: Prior to making a power supply selection it is highly recommended that the HP Power Advisor is run to determine the right size power supply for your server configuration. The HP Power Advisor is located at: www.hp.com/go/hppoweradvisor.503296-821 HP 460W Common Slot Gld Hot Plug Power Supply Kit503296-821 S03296-821HP 750W Common Slot Platinum Hot Plug Power Supply Kit518331-821 S18331-821 HP 750W Common Slot Platinum Hot Plug Power Supply Kit5933188-821 S13331-821 HP 750W Common Slot Platinum Hot Plug Power Supply Kit593331-821 S13331-821 HOTE: S1304 and Efficiency Model Server			
HP NC5235FP 10Gb 2-port Server Adapter593717-B21HP NC5505FP Dual Port 10GbE Server Adapter581201-B21HP NC5525FP 10Gb 2-port Ethernet Server Adapter614203-B21NOTE: Please see the QuickSpecs for Technical Specifications and additional information: www.hp.com/go/ProLiantNICs516937-B21HP 10 GbE PCI-e G2 Dual Port Network Interface Card516937-B21HP InfiniBandQLogic InfiniBand 4X QDR PCI-E G2 Dual Port HCA583211-B21HP InfiniBand 4X QDR ConnectX-2 PCIe G2 Dual Port HCA592520-B21HP InfiniBand FDR/EN 10/40Gb Dual Port 544QSFP Adapter649281-B21NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/13078_div/13078_div.html.518824-B21HP I/O Expansion OptionsHP D1360 G6 PCI-X Riser Kit NOTE: To convert full-length, full-height PCI-Express slot to PCI-X slot for PCI-X cards only.518824-B21HP Power SuppliesNOTE: Prior to making a power supply selection it is highly recommended that the HP Power Advisor is run to determine the right size power supply for your server configuration. The HP Power Advisor is located at: www.hp.com/go/hppoweradvisor. HP 460W Common Slot Gold Hot Plug Power Supply Kit503296-B21HP 750W Common Slot Gold Hot Plug Power Supply Kit593818-B21 HP 750W Common Slot Glod Hot Plug Power Supply Kit593831-B21 HP 750W Common Slot Glod Hot Plug Power Supply KitHP 1200W Common Slot Slot Platinum Hot Plug Power Supply Kit593831-B21 HP 750W Common Slot Slot Platinum Hot Plug Power Supply Kit593831-B21 HP 750W Common Slot Slot Plate Server.HP 1200W Common Slot Slot Hot Plug Power Supply Kit503172-B21 HP 750W Com			460333 031
HP NC5505FP Dual Port 10GbE Server Adapter581201-B21HP NC5525FP 10Gb 2-port Ethernet Server Adapter614203-B21NOTE: Please see the QuickSpecs for Technical Specifications and additional information: www.hp.com/go/ProLiantNICS516937-B21HP 10 GbE PCI-e G2 Dual Port Network Interface Card516937-B21HP InfiniBandQLogic InfiniBand 4X QDR PCI-E G2 Dual Port HCA583211-B21HP InfiniBand 4X QDR ConnectX-2 PCIe G2 Dual Port HCA592520-B21HP InfiniBand FDR/EN 10/40Gb Dual Port S44QSFP Adapter649281-B21NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/13078_div/13078_div.html.518824-B21HP I/O Expansion OptionsHP DL360 G6 PCI-X Riser Kit NOTE: To convert full-length, full-height PCI-Express slot to PCI-X slot for PCI-X cards only.518824-B21HP Power SuppliesNOTE: Prior to making a power supply selection it is highly recommended that the HP Power Advisor is located at: www.hp.com/go/ppoweradvisor. HP 460W Common Slot Gold Hot Plug Power Supply Kit503296-B21NOTE: Standard on most models.593188-B21593188-B21HP 750W Common Slot Gold Hot Plug Power Supply Kit5933831-B21NOTE: Standard on Efficiency Model Server. HP 1200W Common Slot Platinum Hot Plug Power Supply Kit503297-B21HP 1200W Common Slot Platinum Hot Plug Power Supply Kit5033831-B21NOTE: Standard on Efficiency Model Server. HP 1200W Common Slot Platinum Hot Plug Power Supply Kit503727-B21HP 1200W Common Slot Platinum Hot Plug Power Supply Kit503727-B21HP 1200W Common Slot Platinum Hot Plug Power Supply Kit5037			
HP NC5525FP 10Gb 2-port Ethernet Server Adapter614203-B21NOTE: Please see the QuickSpees for Technical Specifications and additional information: www.hp.com/go/ProLiantNICs516937-B21HP 10 GbE PCI-e G2 Dual Port Network Interface Card516937-B21HP InfiniBandQLogic InfiniBand 4X QDR PCI-E G2 Dual Port HCA583211-B21HP InfiniBand 4X QDR ConnectX-2 PCIe G2 Dual Port HCA592520-B21HP InfiniBand FDR/EN 10/40Gb Dual Port 544QSFP Adapter649281-B21NOTE: Please see the QuickSpees for additional information: http://h18000.www1.hp.com/products/quickspees/13078_div/13078_div.html.518824-B21HP I/O Expansion OptionsHP DL360 G6 PCI-X Riser Kit NOTE: To convert full-length, full-height PCI-Express slot to PCI-X slot for PCI-X cards only.518824-B21HP Power SuppliesNOTE: Prior to making a power supply selection it is highly recommended that the HP Power Advisor is located at: www.hp.com/go/hppoweradvisor. HP 460W Common Slot Gold Hot Plug Power Supply Kit503296-B21NOTE: Standard on most models.F19 460W Common Slot Gold Hot Plug Power Supply Kit503296-B21NOTE: Standard on Slot Flatinum Hot Plug Power Supply Kit593188-B21HP 750W Common Slot Flatinum Hot Plug Power Supply Kit593831-B21NOTE: Standard on Efficiency Model Server.F1 1200W Common Slot Flatinum Hot Plug Power Supply Kit503172-B21HP 1200W Common Slot Sid Ver Hot Plug Power Supply Kit503172-B21HP 1200W Common Slot Flatinum Hot Plug Power Supply Kit503172-B21HP 1200W Common Slot Flatinum Hot Plug Power Supply Kit503172-B21HP 1200W Common Slot Flatinum Hot Plug Power Supply K			
NOTE: Please see the QuickSpecs for Technical Specifications and additional information:         www.hp.com/go/ProLiantNICs         HP 10 GbE PCI-e G2 Dual Port Network Interface Card         Finishand         QLogic InfiniBand 4X QDR PCI-E G2 Dual Port HCA         HP InfiniBand         QLogic InfiniBand 4X QDR ConnectX-2 PCIe G2 Dual Port HCA         S92520-B21         HP InfiniBand FDR/EN 10/40Gb Dual Port S44QSFP Adapter         649281-B21         NOTE: Please see the QuickSpecs for additional information:         http://h18000.www1.hp.com/products/quickspecs/13078_div/13078_div.html.    HP I/O Expansion Options          HP DL360 G6 PCI-X Riser Kit         NOTE: Prior to making a power supply selection it is highly recommended that the HP Power         Advisor is run to determine the right size power supply for your server configuration. The HP         Power Advisor is located at: www.hp.com/go/hppoweradvisor.         HP 460W Common Slot Gold Hot Plug Power Supply Kit       503296-B21         NOTE: Standard on most models.         HP 750W Common Slot Platinum Hot Plug Power Supply Kit       5138824-B21         NOTE: Standard on Efficiency Model Server.       503188-B21         HP 750W Common Slot Platinum Hot Plug Power Supply Kit       51327-B21         NOTE: Standard on Efficiency Model Server.       HP 1200W Common Slot Slot Platinum Hot Plug Power Supply Kit </td <td></td> <td>•</td> <td></td>		•	
www.hp.com/go/ProLiantNICs       516937-B21         HP 10 GbE PCI-e G2 Dual Port Network Interface Card       516937-B21         HP InfiniBand       QLogic InfiniBand 4X QDR PCI-E G2 Dual Port HCA       583211-B21         HP InfiniBand 4X QDR ConnectX-2 PCIe G2 Dual Port HCA       592520-B21         HP InfiniBand FDR/EN 10/40Gb Dual Port 544QSFP Adapter       649281-B21         NOTE: Please see the QuickSpecs for additional information:       http://h18000.www1.hp.com/products/quickspecs/13078_div/13078_div.html.         HP I/O Expansion Options       HP DL360 G6 PCI-X Riser Kit       518824-B21         NOTE: To convert full-length, full-height PCI-Express slot to PCI-X slot for PCI-X cards only.       518824-B21         HP Power Supplies       NOTE: Prior to making a power supply selection it is highly recommended that the HP Power Advisor is run to determine the right size power supply for your server configuration. The HP Power Advisor is located at: www.hp.com/go/hppoweradvisor.       503296-B21         HP 460W Common Slot Gold Hot Plug Power Supply Kit       503296-B21         NOTE: Standard on most models.       HP 460W Common Slot Gold Hot Plug Power Supply Kit       593188-B21         HP 750W Common Slot Gold Hot Plug Power Supply Kit       59331-B21         NOTE: Standard on Efficiency Model Server.       HP 1200W Common Slot Gold Hot Plug Power Supply Kit       59331-B21         HOTE: Standard on Efficiency Model Server.       HP 1200W Common Slot Si Vert Hot Plug Power S			614203-d2 і
HP InfiniBand       QLogic InfiniBand 4X QDR PCI-E G2 Dual Port HCA       583211-B21         HP InfiniBand 4X QDR ConnectX-2 PCIe G2 Dual Port HCA       592520-B21         HP InfiniBand FDR/EN 10/40Gb Dual Port 544QSFP Adapter       649281-B21         NOTE: Please see the QuickSpecs for additional information:       http://h18000.www1.hp.com/products/quickspecs/13078_div/13078_div.html.         HP I/O Expansion Options       HP DL360 G6 PCI-X Riser Kit       518824-B21         NOTE: To convert full-length, full-height PCI-Express slot to PCI-X slot for PCI-X cards only.       518824-B21         HP Power Supplies       NOTE: Prior to making a power supply selection it is highly recommended that the HP Power Advisor is run to determine the right size power supply for your server configuration. The HP Power Advisor is located at: www.hp.com/go/hppoweradvisor.       FP 460W Common Slot Gold Hot Plug Power Supply Kit       503296-B21         NOTE: Standard on most models.       HP 460W Common Slot Gold Hot Plug Power Supply Kit       593188-B21         HP 750W Common Slot Gold Hot Plug Power Supply Kit       593831-B21       NOTE: Standard on Efficiency Model Server.         HP 1200W Common Slot Slot Hot Plug Power Supply Kit       500172-B21       HP 750W Common Slot 540VC Hot Plug Power Supply Kit       500172-B21         HP 1200W Common Slot Slover Hot Plug Power Supply Kit       500172-B21       HP 1200W Common Slot 48VDC Hot Plug Power Supply Kit       437573-B21         NOTE: Dr power supplies contain a -48V DC po			
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HP infiniBand 4X QDR ConnectX-2 PCle G2 Dual Port HCA592520-B21HP InfiniBand FDR/EN 10/40Gb Dual Port 544QSFP Adapter649281-B21NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/13078_div/13078_div.html.518824-B21HP I/O Expansion OptionsHP DL360 G6 PCI-X Riser Kit NOTE: To convert full-length, full-height PCI-Express slot to PCI-X slot for PCI-X cards only.518824-B21HP Power SuppliesNOTE: Prior to making a power supply selection it is highly recommended that the HP Power Advisor is run to determine the right size power supply for your server configuration. The HP Power Advisor is located at: www.hp.com/go/hppoweradvisor. HP 460W Common Slot Gold Hot Plug Power Supply Kit NOTE: Standard on most models. HP 460W Common Slot Flatinum Hot Plug Power Supply Kit HP 750W Common Slot Flatinum Hot Plug Power Supply Kit NOTE: Standard on Efficiency Model Server. HP 1200W Common Slot Silver Hot Plug Power Supply Kit NOTE: Standard on Efficiency Model Server. HP 1200W Common Slot Silver Hot Plug Power Supply Kit NOTE: DC power supplies contain a -48V DC power cord designed for in rack DC power rectifiers.500172-B21 437573-B21	HP InfiniBand	QLogic InfiniBand 4X QDR PCI-E G2 Dual Port HCA	583211-B21
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HP I/O Expansion OptionsHP DL360 G6 PCI-X Riser Kit NOTE: To convert full-length, full-height PCI-Express slot to PCI-X slot for PCI-X cards only.518824-B21HP Power SuppliesNOTE: Prior to making a power supply selection it is highly recommended that the HP Power Advisor is run to determine the right size power supply for your server configuration. The HP Power Advisor is located at: www.hp.com/go/hppoweradvisor. HP 460W Common Slot Gold Hot Plug Power Supply Kit503296-B21NOTE: Standard on most models. HP 460W Common Slot Platinum Hot Plug Power Supply Kit593188-B21 HP 750W Common Slot Gold Hot Plug Power Supply Kit5933188-B21 HP 750W Common Slot Platinum Hot Plug Power Supply KitNOTE: Standard on Efficiency Model Server. HP 1200W Common Slot Silver Hot Plug Power Supply Kit500172-B21 HP 750-821 HP 1200W Common Slot Silver Hot Plug Power Supply KitHP 1200W Common Slot Silver Hot Plug Power Supply Kit500172-B21 HP 750-73-B21 NOTE: DC power supplies contain a -48V DC power cord designed for in rack DC power rectifiers.		NOTE: Please see the QuickSpecs for additional information:	
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<b>NOTE:</b> DC power supplies contain a -48V DC power cord designed for in rack DC power rectifiers.		HP 1200W Common Slot Silver Hot Plug Power Supply Kit	500172-B21
rectifiers.		HP 1200W Common Slot -48VDC Hot Plug Power Supply Kit	437573-B21
<b>NOTE:</b> Option Kits contain optional power supply, an IEC power cable and PDU IEC cables.			
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#### **Core Options**

**HP Graphic Options** 

**NOTE:** Supports 3rd Party PCI Video Graphics cards.

### Additional Options

	y not be integrated at the factory. To ensure only valid configurations are ordered, HP recommends Contact your local sales representative for additional information.	the use of an HP
HP Insight Software	HP Insight Control	
-	HP Insight Control including 1yr 24x7 Technical Support and Updates Single Server License	C6N27A
	HP Insight Control including 1yr 24x7 Technical Support and Updates Electronic License	C6N28AAE
	HP Insight Control Server Provisioning Media Kit	BD883A
	HP Insight Management Media Kit	C6N31A
	HP Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle Electronic License	C6N36AAE
	HP Insight Control Server Deployment including 1yr 24x7 Support Electronic License	T9082AAE
	HP Insight Control Server Deployment including 1yr 24x7 Support Single Server License	452151-B21
	<b>NOTE:</b> Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key.	
	NOTE: Customer will receive a license entitlement certificate. The license entitlement	
	certificate 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 and Update Service. <b>NOTE:</b> 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.	
	<b>NOTE:</b> For additional license options please see the QuickSpecs at:	
	http://h18000.www1.hp.com/products/quickspecs/12631_div/12631_div.html	
	HP Integrated Lights-Out (iLO) Advanced for ProLiant	
	HP iLO Advanced including 1yr 24x7 Technical Support and Updates Electronic License	TA850AAE
	HP iLO Advanced Electronic License with 3yr 24x7 Tech Support and Updates	BD506AAE
	HP iLO Advanced including 1yr 24x7 Technical Support and Updates Single Server License	512485-B21
	HP iLO Advanced 1 Server License with 3yr 24x7 Tech Support and Updates	BD505A
	NOTE: For additional license options please see the QuickSpecs at:	
	http://h18004.www1.hp.com/products/quickspecs/14276_div/14276_div.html	
	NOTE: For more information, visit: http://www.hp.com/go/ilo	

#### High Performance Clusters HP Cluster Management Utility

HP Insight Cluster Management Utility 1yr 24x7 Flexible License <b>NOTE:</b> 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.	QL803B
HP Insight Cluster Management Utility 3yr 24x7 Flexible License <b>NOTE:</b> These part numbers can be used to purchase one certificate for multiple licenses and support 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. Customer also will receive a support agreement.	BD476A
HP Insight Cluster Management Utility Media	BD477A
NOTE: For additional license kits please see the QuickSpecs at: http://h18004.www1.hp.com/products/quickspecs/12612_div/12612_div.html	
HP HPC Linux Value Pack	
HP High Performance Computing Linux Value Pack 1 Processor Flexible License for ProLiant Servers <b>NOTE:</b> 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	TC293B
	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. HP Insight Cluster Management Utility 3yr 24x7 Flexible License NOTE: These part numbers can be used to purchase one certificate for multiple licenses and support 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. Customer also will receive a support agreement. HP Insight Cluster Management Utility Media NOTE: For additional license kits please see the QuickSpecs at: http://h18004.www1.hp.com/products/quickspecs/12612_div/12612_div.html HP Hc Linux Value Pack HP High Performance Computing Linux Value Pack 1 Processor Flexible License for ProLiant Servers NOTE: This part number can be used to purchase one certificate for multiple licenses with a

Additional Options		
	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.	
	HP High Performance Computing Linux Value Pack Media Kit for ProLiant Servers <b>NOTE:</b> This part number can be used to purchase media including software and documentation, which will be delivered to the customer.	TC294A
	<b>NOTE:</b> For additional license kits please see the QuickSpecs at: http://h18004.www1.hp.com/products/quickspecs/13485_div/13485_div.html	
HP I/O Accelerator Options	Second Generation Accelerators	
	HP 365GB Multi Level Cell G2 PCIe ioDrive2 for ProLiant Servers	673642-B21
	HP 785GB Multi Level Cell G2 PCIe ioDrive2 for ProLiant Servers	673644-B21
	HP 1205GB Multi Level Cell G2 PCIe ioDrive2 for ProLiant Servers	673646-B21
	HP 2410GB Multi Level Cell G2 PCIe ioDrive2 Duo for ProLiant Servers	673648-B21
	First Generation Accelerators	
	HP 160GB Single Level Cell PCIe ioDrive for ProLiant Servers <b>NOTE:</b> A low-profile PCI bracket is included for use in low-profile slots.	600278-B21
	HP 320GB Single Level Cell PCIe ioDrive Duo for ProLiant Servers	600281-B21
	<b>NOTE:</b> Please see the QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/13587_div/13587_div.html (Worldwide)	
HP Security	HP Trusted Platform Module Option	488069-B21
	NOTE: The TPM (Trusted Platform Module) is a microcontroller chip that can securely store artifacts used to authenticate the server platform. These artifacts can include passwords, certificates and encryption keys. Windows® BitLocker™ Drive Encryption (BitLocker) is a data protection feature available in Windows Server® 2008. BitLocker leverages the enhanced security capabilities of a Trusted Platform Module (TPM) version 1.2. The TPM works with BitLocker to help protect user data and to ensure that a server running Windows Server 2008 has not been tampered with while the system was offline. For more information about TPM, including a white paper, go to: www.hp.com/go/TPM. NOTE: ProLiant OS pre-installed units will come with the partition required for TPM deployment. NOTE: The TPM key is unique to every TPM deployed server and must be retained. Misplacing or losing the key could result in data loss.	
HP Storage Controllers	NOTE: The DL360 G7 Server comes standard with an integrated P410i Smart Array Controller designed to mange up to 8 SFF hard drives from HP. For additional capabilities and capacities HP offers additional Smart Arrays. (BBWC=Battery Backed Write Cache and FBWC=Flash Back Write Cache) SAS Controllers Smart Array P212 Controller	
	HP Smart Array P212/ZM 1-ports Int/1-ports Ext PCIe x8 SAS Controller	462828-B21
	HP Smart Array P212/256 1-ports Int/1-ports Ext PCIe x8 SAS Controller	462834-B21
	Smart Array P411 Controller	
	HP Smart Array P411/256 2-ports Ext PCIe x8 SAS Controller	462830-B21
	HP Smart Array P411/512 BBWC 2-ports Ext PCIe x8 SAS Controller	462832-B21
	HP Smart Array P411/512 FBWC 2-ports Ext PCIe x8 SAS Controller	578229-B21

### Additional Options

IP Smart Array P411/1G FBWC 2-ports Ext PCIe x8 SAS Controller	572531-B21
imart Array P812 Controller	
IP Smart Array P812/1G FBWC 2-ports Int/4-ports Ext PCIe x8 SAS Controller <b>IOTE:</b> The HP Smart Array P812/1G Flash Backed Cache Controller has the ability to support B internal drives on the DL360 G7 as well as external storage solutions. For use with the Internal 8 drives the Mini-SAS to Mini-SAS, 25.50" & 28.00" option kit (PN: 496013-B21) is equired.	487204-B21
)ptional Upgrades	
<b>IOTE:</b> For Smart Array P410i Controller and Smart Array P212 Controller. Not available for	
actory integration.	
IP 256MB P-series Cache Upgrade	462968-B21
<b>IOTE:</b> Supported on HP Smart Array P212 Controller and HP Smart Array P410i Controller.	
IP 512MB P-Series Battery Backed Write Cache Upgrade	462967-B21
IP 512MB Flash Backed Write Cache	534916-B21
<b>IOTE:</b> Supported on the Smart Array P410i Controller only.	
IP 1GB Flash Backed Cache	534562-B21
<b>IOTE:</b> Supported on the Smart Array P410i Controller only.	
IP 650 mAh P-Series Battery	462969-B21
<b>IOTE:</b> To enable BBWC on the 256MB cache kits.	
IP Mini SAS to Mini SAS 28in Cable Assembly	496013-B21
IP Smart Array Advanced Pack including 1yr 24x7 Technical Support and Updates Single Server License	516471-B21
vith a single activation key. Customers will receive a license entitlement certificate via e- nail. The license entitlement certificate must be redeemed online or via fax in order to obtain he license activation key(s). Include one year of 24x7 HP Software Technical Support Services.	
<b>IOTE:</b> Please see the QuickSpecs for Technical Specifications and additional information:	
http://h18000.www1.hp.com/products/quickspecs/13203_div/13203_div.html Smart Array P212 Controller)	
http://h18000.www1.hp.com/products/quickspecs/13202_div/13202_div.html Smart Array P411 Controller)	
http://h18000.www1.hp.com/products/quickspecs/13558_div/13558_div.html Smart Array P812 Controller)	
http://h18000.www1.hp.com/products/quickspecs/13200_div/13200_div.html Smart Array Advanced Pack)	
SAS HBA	
IP Modular Smart Array SC08e 2-ports Ext PCIe x8 SAS Host Bus Adapter IP Modular Smart Array SC08e 2-ports Ext PCIe x8 SAS Host Bus Adapter	614988-B21
<b>IOTE:</b> This is only approved for the HP Storage Works P2000 G3 SAS Modular Smart Array.	
<b>NOTE:</b> Please see the QuickSpecs for Technical Specifications and additional information: http://h18004.www1.hp.com/products/quickspecs/13651_div/13651_div.html	
SCO8e 6Gb HBA)	
icsi HBA	412014 52
IP SC11Xe Ultra320 Single Channel/ PCIe x4 SCSI Host Bus Adapter IOTE: Recommended HBA for SCSI tape drive connect.	412911-B2 <sup>-</sup>
IOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/12566_div/12566_div.html SC11Xe HBA)	

### Additional Options

HP Power Cords	<b>NOTE:</b> The HP ProLiant DL360 G7 ships with an IEC-IEC power cord used for rack mounting with Power Distribution Units (PDUs). For specific regional power cords purchase from the following.	
	HP C13 - Nema 5-15P US/CA 110V 10Amp 1.83m Power Cord	AF556A
	HP C13 - GB-1002 CN 250V 10Amp 1.83m Power Cord	AF557A
	HP C13 - IRAM -2073 AR 250V 10A 2.5m Power Cord	AF558A
	HP C13 - Nema 5-15P TH/PH 250V 10Amp 1.83m Power Cord	AF559A
	HP C13 - CNS-690 TW 110V 13Amp 1.83m Power Cord	AF561A
	HP C13 - IS-1293 IN 240V 6Amp LV 2.0m Power Cord	AF562A
	HP C13 - KSC- 8305 KR 250V 10Amp 1.83m Power Cord	AF560A
	HP C13 - SI-32 IL 250V 10Amp 1.83m Power Cord	AF564A
	HP C13 - SEV 1011 CH 250V 10Amp 1.83m Power Cord	AF565A
	HP C13 - DK-2.5A DK 250V 10Amp 1.83m Power Cord	AF566A
	HP C13 - SABS-164 ZA 250V 10Amp 2.5m Power Cord	AF567A
	HP C13 - CEE-VII EU 250V 10Amp 1.83m Power Cord	AF568A
	HP C13 - AS3112-3 AU 250V 10Amp 2.5m Power Cord	AF569A
	HP C13 - BS-1363A UK/HK/SG 250V 10Amp 1.83m Power Cord	AF570A
	HP C13 - CEI-23-50 IT/CL 250V 10Amp 1.83m Power Cord	AF571A
	HP C13 - JIS C8303 JP 100V 12Amp 2.0m Power Cord	AF572A
	HP C13 - IS-1293 IN 250V 10Amp HV 2.5m Power Cord	SG579A
	HP C13 - C14 WW 250V 10Amp Flint Gray 2.0m Jumper Cord	AF573A
	HP C13 - NBR-14136 BR 250V 10Amp 1.83m Power Cord	AF591A
	HP C13 - C14 WW 250V 10Amp 2.0m Jumper Cord	A0K02A
	HP C13 - C14 WW 250V 10A Gray 0.7m Jumper Cord	АОКОЗА
	HP C13 - C14 WW 250V 10A Gray 1.37m Jumper Cord	A0K04A
	HP C13 - C14 WW 250V 10A Gray 3.0m Jumper Cord	A0K06A
	HP C13 - Nema 6-15P US 250V 15A JP 3.6m Power Cord	AON33A
HP Tape Backup	<b>NOTE:</b> For the complete range of tape drives, autoloaders, libraries and media see: http://www.hp.com/go/tape. For hardware and software compatibility of HP tape backup products see: http://www.hp.com/storage/SPOCK and www.hp.com/go/ebs. <b>NOTE:</b> For Internal drives to be connected to DL servers please make sure that you order rack mount kit as well.	
	HP StoreEver LTO-3 Ultrium 920 SAS Internal Tape Drive	EH847B
	NOTE: Four installation into 411 CAC work bit (AE4E0D) on 211 CAC work bit (ACE7CD) Also	
	NOTE: For installation into 1U SAS rack kit (AE459B) or 3U SAS rack kit (AG576B). No	
	peripheral bay available for installation into the server. Connection using HP Smart Array P212/Zero Memory Controller (462828-B21) recommended.	
	peripheral bay available for installation into the server. Connection using HP Smart Array	DW086B
	peripheral bay available for installation into the server. Connection using HP Smart Array P212/Zero Memory Controller (462828-B21) recommended.	DW086B DW085B
	peripheral bay available for installation into the server. Connection using HP Smart Array P212/Zero Memory Controller (462828-B21) recommended. HP StoreEver LTO-2 Ultrium 448 SAS External Drive	DW085B
	peripheral bay available for installation into the server. Connection using HP Smart Array P212/Zero Memory Controller (462828-B21) recommended. HP StoreEver LTO-2 Ultrium 448 SAS External Drive HP StoreEver LTO-2 Ultrium 448 SAS Internal Tape Drive	DW085B
	peripheral bay available for installation into the server. Connection using HP Smart Array P212/Zero Memory Controller (462828-B21) recommended. HP StoreEver LTO-2 Ultrium 448 SAS External Drive HP StoreEver LTO-2 Ultrium 448 SAS Internal Tape Drive HP StoreEver LTO-4 Ultrium 1760 SAS (1) in 1U Rack-mount Kit	DW085B EH946C EJ014B
	peripheral bay available for installation into the server. Connection using HP Smart Array P212/Zero Memory Controller (462828-B21) recommended. HP StoreEver LTO-2 Ultrium 448 SAS External Drive HP StoreEver LTO-2 Ultrium 448 SAS Internal Tape Drive HP StoreEver LTO-4 Ultrium 1760 SAS (1) in 1U Rack-mount Kit HP StoreEver LTO-5 Ultrium 3000 SAS Tape Drive in 1U Rack-mount	DW085B EH946C EJ014B COL99A
	peripheral bay available for installation into the server. Connection using HP Smart Array P212/Zero Memory Controller (462828-B21) recommended. HP StoreEver LTO-2 Ultrium 448 SAS External Drive HP StoreEver LTO-2 Ultrium 448 SAS Internal Tape Drive HP StoreEver LTO-4 Ultrium 1760 SAS (1) in 1U Rack-mount Kit HP StoreEver LTO-5 Ultrium 3000 SAS Tape Drive in 1U Rack-mount HP StoreEver LTO-6 Ultrium 6250 Tape Drive in 1U Rack-mount Kit	DW085B EH946C EJ014B COL99A EH963A
	peripheral bay available for installation into the server. Connection using HP Smart Array P212/Zero Memory Controller (462828-B21) recommended. HP StoreEver LTO-2 Ultrium 448 SAS External Drive HP StoreEver LTO-2 Ultrium 448 SAS Internal Tape Drive HP StoreEver LTO-4 Ultrium 1760 SAS (1) in 1U Rack-mount Kit HP StoreEver LTO-5 Ultrium 3000 SAS Tape Drive in 1U Rack-mount HP StoreEver LTO-6 Ultrium 6250 Tape Drive in 1U Rack-mount Kit HP StoreEver LTO-6 Ultrium 6650 Internal Tape Drive	DW085B EH946C

HP Disk Backup	<b>NOTE:</b> For the complete range of D2D Backup Systems see: <a href="http://www.hp.com/go/d2d">http://www.hp.com/go/d2d</a> . For the complete range of RDX drives and media see: <a href="http://www.hp.com/go/rdx">http://www.hp.com/go/d2d</a> . For hardware and software compatibility of HP disk backup products see: <a href="http://www.hp.com/storage/SPOCK">http://www.hp.com/go/rdx</a> . For hardware and software compatibility of HP disk backup products see: <a href="http://www.hp.com/storage/SPOCK">http://www.hp.com/go/rdx</a> . For hardware and software compatibility of HP disk backup products see: <a href="http://www.hp.com/storage/SPOCK">http://www.hp.com/storage/SPOCK</a> .						
	HP D2D Backup Systems with Backup Data Deduplication						
	HP StoreOnce D2D2502i Backup System	EJ001C					
	HP StoreOnce D2D2504i Backup System	EJ002C					
	HP StoreOnce D2D4112 Backup System	EH993C					
	HP RDX Removable Disk Backup Systems USB						
	HP RDX1000 USB3.0 Internal Disk Backup System	B7B67A					
	HP RDX320 USB3.0 Internal Disk Backup System	B7B62A					
	HP RDX500 USB3.0 Internal Disk Backup System	B7B64A					
	HP StoreOnce Backup systems						
	HP StoreOnce 2620 iSCSI Backup	BB852A					
	HP StoreOnce 4220 Backup	BB855A					
HP Storage Options	Storage Fibre Channel HBA						
	NOTE: The following is a list of all Fibre Channel Host Bus Adapters for Windows and Linux.						
	For detailed compatibility information please see:						
	http://h18006.www1.hp.com/storage/saninfrastructure/hba.html						
	Brocade Fibre Channel HBAs						
	HP 81B 8Gb 1-port PCIe Fibre Channel Host Bus Adapter	AP769B					
	HP 82B 8Gb 2-port PCIe Fibre Channel Host Bus Adapter	AP770B					
	HP 41B 4Gb 1-port PCIe Fibre Channel Host Bus Adapter	AP767B					
	HP 42B 4Gb 2-port PCIe Fibre Channel Host Bus Adapter	AP768B					
	Emulex Fibre Channel HBAs						
	HP 81E 8Gb 1-port PCIe Fibre Channel Host Bus Adapter	AJ762B					
	HP 82E 8Gb 2-port PCIe Fibre Channel Host Bus Adapter	AJ763B					
	HP FC2142SR 4Gb 1-port PCIe Fibre Channel Host Bus Adapter	A8002B					
	HP FC2242SR 4Gb 2-port PCIe Fibre Channel Host Bus Adapter	A8003B					
	HP SN1000E 16Gb 2-port PCIe Fibre Channel Host Bus Adapter	QR559A					
	HP SN1000E 16Gb 1-port PCIe Fibre Channel Host Bus Adapter	QR558A					
	QLogic Fibre Channel HBAs						
	HP 81Q 8Gb 1-port PCIe Fibre Channel Host Bus Adapter	AK344A					
	HP 82Q 8Gb 2-port PCIe Fibre Channel Host Bus Adapter	AJ764A					
	HP FC1142SR 4Gb 1-port PCIe Fibre Channel Host Bus Adapter	AE311A					
	HP FC1242SR 4Gb 2-port PCIe Fibre Channel Host Bus Adapter	AE312A					
	Converged Network Adapter						
	HP CN1100E Dual Port Converged Network Adapter	BK835A					
	HP CN1000Q Dual Port Converged Network Adapter	BS668A					

HP CN1000E Dual Port Converged Network Adapter

AW520B

Additional Options		
HP Disk Storage Systems	Disk Enclosures	
	HP D2600 Disk Enclosure	AJ940A
	HP D2700 Disk Enclosure	AJ941A
	NOTE: Please see the QuickSpecs for additional options and configuration information	
	at:	
	http://h18000.www1.hp.com/products/quickspecs/13404_div/13404_div.html	
	(Worldwide)	
HP Uninterruptible Power	HP Rack-mountable UPS	
Systems	HP R1500 G3 Uninterruptible Power Supply (UPS)	
	HP R1.5kVA G3 1U NA Uninterruptible Power System	AF469A
	HP R1.5kVA G3 1U JP/TW Uninterruptible Power System	AF470A
	HP R1.5kVA G3 1U INTL Uninterruptible Power System	AF471A
	<b>NOTE:</b> Please see the QuickSpecs for additional information:	
	http://h18000.www1.hp.com/products/quickspecs/14059_div/14059_div.html	
	(Worldwide)	
	HP R/T3000 G2 Uninterruptible Power System (UPS)	
	HP R/T3000 G2 2U L530 Low Voltage NA/JP Uninterruptible Power System	AF466A
	HP R/T3000 G2 2U L620 High Voltage NA/JP Uninterruptible Power System	AF467A
	HP R/T3000 G2 2U Detachable Cord High Voltage INTL Uninterruptible Power System	AF468A
	<b>NOTE:</b> Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/14058_div/14058_div.html (Worldwide)	
	R5000 Uninterruptible Power System (UPS)	
		AF461A
	HP R5KVA 3U IEC309-32A High Voltage INTL Uninterruptible Power System	AF461A AF460A
	HP R5KVA 3U L630 High Voltage NA/JP Uninterruptible Power System <b>NOTE:</b> Please see the QuickSpecs for additional information:	AF400A
	http://h18000.www1.hp.com/products/quickspecs/14109_div/14109_div.html	
	(Worldwide)	
	R7000 Uninterruptible Power System (UPS)	
	HP R7KVA 4U 50A High Voltage NA/JP Uninterruptible Power System	AF462A
	HP R7KVA 4U IEC-32A High Voltage INTL Uninterruptible Power System	AF463A
	HP R5KVA and R7KVA 3U Extended Runtime Module	AF464A
	NOTE: Please see the QuickSpecs for additional information:	
	http://h18000.www1.hp.com/products/quickspecs/14110_div/14110_div.html (Worldwide)	
	NOTE: For additional information on HP Uninterruptible Power Systems please go to:	
	www.hp.com/servers/rackups.	
	<b>NOTE:</b> For additional information on sizing your server, please reference: http://www.upssizer.com.	
	<b>NOTE:</b> Please see the UPS and PDU cable matrix's on the HP Power Protection and	
	Management page. Under Power Cords, click on the "HP Power Cord Matrix" link. That link will list cable descriptions, requirements, and specifications for UPS and PDU units. Please see the following link: www.hp.com/products/powercords.	

Additional Options		
HP Power Distribution	Monitored PDUs	
Units	HP Monitored Power Distribution Unit: Full Rack Version	
	HP 8.6kVA 24A Single Input Three Phase NA/JP Monitored Power Distribution Unit	AF504A
	HP 16.6kVA 40A Dual Input Single Phase NA/JP Monitored Power Distribution Unit	AF505A
	HP 8.3kVA 40A Single Input Single Phase NA/JP Monitored Power Distribution Unit	AF506A
	HP 22.1kVA 16A Dual Input Three Phase INTL Monitored Power Distribution Unit	AF507#
	HP 11kVA 16A Single Input Three Phase INTL Monitored Power Distribution Unit	AF5084
	HP 14.7kVA 32A Dual Input Single Phase INTL Monitored Power Distribution Unit	AF509/
	HP 7.3kVA 32A Single Input Single Phase INTL Monitored Power Distribution Unit	AF510/
	HP Monitored Power Distribution Unit: Half Rack Version	
	HP 4.9kVA 24A Single Input Single Phase NA/JP Monitored Power Distribution Unit	AF914#
	HP 7.3kVA 32A Single Input Single Phase INTL Monitored Power Distribution Unit	AF915/
	<b>NOTE:</b> Please see the QuickSpecs for Technical Specifications and additional information:	
	http://h18000.www1.hp.com/products/quickspecs/12118_div/12118_div.html	
	Modular PDUs 1U/OU NOTE: 1U/OU mounting brackets shipped with the unit (optimized for 10000 G2 and 9000 series racks).	
	HP 3.6kVA 16A High Voltage INTL Modular Power Distribution Unit	252663-B24
	HP 4.9kVA 24A High Voltage NA/JP Modular Power Distribution Unit	252663-D7
	HP 2.8kVA 24A Low Voltage NA/JP Modular Power Distribution Unit	252663-D7
	HP 7.3kVA 32A High Voltage INTL Modular Power Distribution Unit	252663-B3
	HP 8.3kVA 40A High Voltage NA/JP Modular Power Distribution Unit	252663-D7
	<b>NOTE:</b> For additional information on HP Power Distribution Units including accessories	
	please go to: www.hp.com/go/pdu.	
	<b>NOTE:</b> Please see the UPS and PDU cable matrix's on the HP Power Protection and Management page. Under Power Cords, click on the "HP Power Cord Matrix" link. That link will list cable descriptions, requirements, and specifications for UPS and PDU units. Please see the following link: www.hp.com/products/powercords.	
HP Intelligent Power	iPDU Core Units	
Distribution Units (iPDU)	HP 4.9kVA 24A Single Phase NA/JP Core Intelligent Modular Power Distribution Unit	AF520/
	HP 8.3kVA 40A Single Phase NA/JP Core Intelligent Modular Power Distribution Unit	AF521
	HP 8.6kVA 24A Three Phase NA/JP Core Intelligent Modular Power Distribution Unit	AF522
	HP 17.3kVA 48A Three Phase NA/JP Core Intelligent Modular Power Distribution Unit	AF523
	HP 7.3kVA 32A Single Phase INTL Core Intelligent Modular Power Distribution Unit	AF525
	HP 11kVA 16A Three Phase INTL Core Intelligent Modular Power Distribution Unit	AF526
	HP 22kVA 32A Three Phase INTL Core Intelligent Modular Power Distribution Unit	AF527
	HP 11.4kVA 16A 415V Three Phase L22-20 NA Core Intelligent Power Distribution Unit	AF900
	HP 17.3kVA 24A 415V Three Phase L22-30 NA Core Intelligent Power Distribution Unit	AF902/
	HP 17.3kVA 24A 415V Three Phase IEC309 NA Core Intelligent Power Distribution Unit	AF901
	HP 17.3kVA 48A 208V Three Phase 12 Outlet Core NA/JP Intelligent Power Distribution	AF535

Unit HP 17.3kVA 24A 415V Three Phase 12 Outlet Core NA/JP Intelligent Power Distribution AF537A Unit

HP 22kVA 32A 400V Three Phase 12 Outlet Core INTL Intelligent Power Distribution Unit AF538A

### Additional Option

Additional Options		
	PDU Extention Bars	
	HP 5xC13 Intelligent PDU Extension Bar G2 Kit	AF547A
	HP 5xC13 Outlets Power and UID LEDs Pair Standard Extension Bar	AF528A
	NOTE: Please see the QuickSpecs for Technical Specifications and additional	
	information: http://h18000.www1.hp.com/products/quickspecs/13650_div/13650_div.html (Worldwide)	
HP Rack Options	HP USB Keyboard and Mouse	
	HP USB BFR with PVC Free US Keyboard/Mouse Kit	631341-B21
	HP USB BFR with PVC Free UK Keyboard/Mouse Kit	631344-B21
	HP USB BFR with PVC Free FR Keyboard/Mouse Kit	631346-B21
	HP USB BFR with PVC Free ES Keyboard/Mouse Kit	631348-B21
	HP USB BFR with PVC Free DE Keyboard/Mouse Kit	631358-B21
	HP USB BFR with PVC Free JP Keyboard/Mouse Kit	631360-B21
	HP USB BFR with PVC Free IT Keyboard/Mouse Kit	631362-B21
	HP USB BFR with PVC Free CN Keyboard/Mouse Kit	631364-B21
	HP USB BFR with PVC Free AE Keyboard/Mouse Kit	638212-B21
	HP USB BFR with PVC Free RU Keyboard/Mouse Kit	638214-B21
	HP USB BFR with PVC Free IN Keyboard/Mouse Kit	672097-D63
	HP USB BFR with PVC Free AP-Intl Keyboard/Mouse Kit	672097-373
	HP USB BFR with PVC Free Intl Keyboard/Mouse Kit	672097-B33
	HP USB BFR with PVC Free PT Keyboard/Mouse Kit	672097-133
	HP USB BFR with PVC Free TR Keyboard/Mouse Kit	672097-143
	HP USB BFR with PVC Free CZ Keyboard/Mouse Kit	672097-223
	HP USB BFR with PVC Free FI Keyboard/Mouse Kit	672097-353
	HP USB BFR with PVC Free SE Keyboard/Mouse Kit	672097-103
	HP USB BFR with PVC Free CH Keyboard/Mouse Kit	672097-113
	HP USB BFR with PVC Free KR Keyboard/Mouse Kit	672097-KD3
	<b>NOTE:</b> Please see the QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/13972_div/13972_div.html	
	(Worldwide)	
	HP TFT7600 G2 KVM Console Rackmount Keyboard Monitor	
	HP TFT7600 G2 KVM Console Rackmount Keyboard US Monitor	AZ870A
	HP TFT7600 G2 KVM Console Rackmount Keyboard UK Monitor	AZ871A
	HP TFT7600 G2 KVM Console Rackmount Keyboard DE Monitor	AZ872A
	HP TFT7600 G2 KVM Console Rackmount Keyboard FR Monitor	AZ873A
	HP TFT7600 G2 KVM Console Rackmount Keyboard IT Monitor	AZ874A
	HP TFT7600 G2 KVM Console Rackmount Keyboard ES Monitor	AZ875A
	HP TFT7600 G2 KVM Console Rackmount Keyboard DK Monitor	AZ876A
	HP TFT7600 G2 KVM Console Rackmount Keyboard NO Monitor	AZ877A
	HP TFT7600 G2 KVM Console Rackmount Keyboard SE/FI Monitor	AZ878A
	HP TFT7600 G2 KVM Console Rackmount Keyboard CH Monitor	AZ879A
	HP TFT7600 G2 KVM Console Rackmount Keyboard PT Monitor	AZ880A

HP TFT7600 G2 KVM Console Rackmount Keyboard BE Monitor

AZ881A

### Additional Options

	HP TFT7600 G2 KVM Console Rackmount Keyboard JP Monitor	AZ882A
	HP TFT7600 G2 KVM Console Rackmount Keyboard RU Monitor	AZ883A
	HP TFT7600 G2 KVM Console Rackmount Keyboard Intl Monitor	AZ884A
	HP TFT7600 G2 KVM Console Rackmount Keyboard US TAA Monitor	AZ885A
	NOTE: Please see the QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/13731_div/13731_div.html (Worldwide)	
	HP Server Console Switches	
	HP Server Console 0x2x8 Port Analog Switch	AF616A
	HP Server Console 0x2x16 Port Analog Switch	AF617A
	HP TAA 0x2x16xKVM Server Console G2 Switch	AF626A
	<b>NOTE:</b> Please see the QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/11834_div/11834_div.html	
	(Worldwide)	
	HP 0x2x16 KVM Server Console Switch G2 with Virtual Media CAC Software	AF618A
	HP 0x2x32 KVM Server Console Switch G2 with Virtual Media CAC Software	AF619A
	HP KVM CAT5 1-pack USB Interface Adapter	336047-B21
	<b>NOTE:</b> Please see the QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/13475_div/13475_div.html (Worldwide)	
	HP IP Console Switch G2 with Virtual Media & CAC	
	HP 1x4 USB/PS2 KVM Console Switch	AF611A
	HP 1x1Ex8 KVM IP Console Switch G2 with Virtual Media CAC Software	AF620A
	HP 2x1Ex16 KVM IP Console Switch G2 with Virtual Media CAC Software	AF621A
	HP 4x1Ex32 KVM IP Console Switch G2 with Virtual Media CAC Software	AF622A
	<b>NOTE:</b> Please see the QuickSpecs for Technical Specifications and additional information:	
	http://h18000.www1.hp.com/products/quickspecs/13474_div/13474_div.html (Worldwide)	
	Rack Kit	
	HP DL360G4 1U Cable Management Arm	365403-B21
HP USB and SD Options	HP USB 04 Standard Keyboard HP 4GB SD Enterprise Performance Flash Media Kit <b>NOTE:</b> Blank SD media device is supported for use with VMware and Citrix. SD media m installed in the internal slot of the ProLiant server. Learn more at:	DT528A#ABA 580387-B21 nust be
	http://www.hp.com/go/proliantvirtualization.	

http://www.hp.com/go/proliantvirtualization.

### HP ProLiant DL360 Generation 7

# QuickSpecs

### Additional Options

HP Care Pack Services	<b>Proactive Care</b> <b>NOTE:</b> Collaborative Support plus Proactive services delivered by the onshore, local language Advanced Solution Center (ASC), end-to-end case ownership from a Technical Solution Specialists and Technical Account Manager who remotely delivers firmware/software revision management, proactive scans and incident trend reports. Recommended for customers running a virtualized infrastructure and/or customers	
	who desire an enhanced call support experience.	
	HP 3 year 4 hour 24x7 ProLiant DL36x(p) Proactive Care Service	U2Z86E
	HP 3 year 4 hour 24x7 with Defective Media Retention ProLiant DL36x(p) Proactive Care Service	U2Z89E
	HP 3 year 6 hour Call To Repair 24x7 ProLiant DL36x(p) Proactive Care Service	U2Z92E
	HP 3 year 6 hour Call To Repair 24x7w/Defective Media Retention ProLiant DL36x(p) Proactive Care SVC	U2Z95E
	HP 3 year 4 hour 24x7 ProLiant DL36x(p) with Insight Control Proactive Care Service	U3N59E
	HP 3 year 4hr 24x7 with Defective Media Retention DL36x(p) with Insight Control Proactive Care SVC	U3N62E
	HP 3yr 6hrCallToRepair 24x7w/Defective Media Retention DL36x(p) w/Insight Control Proactive Care SVC	U3N68E
	Collaborative Support <b>NOTE:</b> Hardware break/fix plus 24x7 software diagnosis support with collaborative call management for a broad spectrum of 3rd Party software products including O/S and hypervisors. Recommended for customers procuring 3rd party SW O/S and hypervisors from the software vendors directly and deploying them on HP ProLiant servers.	
	HP 3 year 4 hour 24x7 ProLiant DL36x(p) Collaborative Support	U1J66E
	HP 3 year 4 hour 24x7 with Defective Media Retention ProLiant DL36x(p) Collaborative Support	U1J69E
	HP 3 year 6 hour Call To Repair 24x7 ProLiant DL36x(p) Collaborative Support	U1J72E
	HP 3 year 6hr Call To Repair 24x7 withDefective Media Retention ProLiant DL36x(p) Collaborative Support	U1J75E
	<b>Proactive Care Personalized Support Option</b> <b>NOTE:</b> To add an onsite Account Support Manager (ASM) to Proactive Care. ASM is an assigned resource who delivers support planning and brings technical expertise and best practices advices for the customer's environment.	
	HP 3yr Provides annual personalized proactive supp for existing Proactive Care ISS centric environment	U6W98E
	Installation Services NOTE: Reduce the time required to get your system up and running and help minimize disruptions to your business.	
	HP Install ProLiant DL36x(p) Service	U4506E
	HP Startup ProLiant DL36x(p) Service	U4507E
	<b>NOTE:</b> For more information, customer/resellers can contact: http://www.hp.com/services/carepack.	

### Memory

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

#### DDR3 memory population guidelines

For detailed memory configuration rules and guidelines, please use the Online DDR3 Memory Configuration Tool: www.hp.com/go/ddr3memory-configurator

Some DIMM installation guidelines are summarized below:

- For servers with eighteen (18) memory slots:
  - $\circ$  There are three (3) channels per processor; six (6) channels per server
  - There are three (3) DIMM slots for each memory channel; eighteen (18) total slots
  - Memory channel 1 consists of the three (3) DIMMs that are closest to the processor
  - Memory channel 3 consists of the three (3) DIMMs that are furthest from the processor
- DIMM slots that are white should be populated first
- Do not mix Unbuffered memory (UDIMMs) with Registered memory (RDIMMs)
- Do not install DIMMs if the corresponding processor is not installed
- If only one processor is installed in a 2CPU system, only half of the DIMM slots are available
- To maximize performance, balance the total memory capacity between all installed processors
- It is not required, but it is recommended to load the channels similarly if possible
- You can only have up to eight (8) ranks installed per channel
- When using quad-rank DIMMs, only 2 DIMMs can be installed per channel. The combinations are as follows: 2 quad-rank DIMMs, 1 quad-rank DIMM + 1 dual-rank DIMM or 1 quad-rank DIMM + 1 single-rank DIMM
- You can only install two quad-rank DIMMs per channel
- You can only install two UDIMMs per channel; if available, the third slot in the channel must remain empty
- Populate DIMMs from heaviest load (quad-rank) to lightest load (single-rank) within a channel
- Heaviest load (DIMM with most ranks) within a channel goes furthest from the chipset
- For memory mirroring mode, channel 3 must be unpopulated. Channels 1 and 2 are populated identically
- For lock-step mode, channel 3 must be unpopulated. DIMMs in channels 1 and 2 will be installed in pairs. The paired slots will be 1,4; 2,5; 3;6 on a 3DPC system or 1,4; 2,5; on a 2DPC system
- Low Voltage DIMMs can only be used with Intel<sup>®</sup> Xeon<sup>®</sup> processor 5600 series processors
- If mixing DIMM voltage is a requirement, please note that the DIMMs will run at 1.5V since all 1.35V are capable of supporting 1.5V operations

			DIMM	slot/cap	acity/pop	ulated sp	eed table						
DIMM Type		Registered DIMMS (RDIMMs)									Unbuffered with ECC DIMMs (UDIMMs)		
DIMM Rank	Single Rank (1R)	Dual Rank (2R)				Quad Rank (4R)			Single Rank (1R)	Dual Rank (2R)			
DIMM Capacity	4GB	2GB	4GB	8GB	8GB	16GB	4GB	16GB	32GB	1GB	2GB	4GB	
DIMM Native Speed (MHz)	1333	1333	1333	1066	1333	1333	1066	1066	1066	1333	1333	1333	
Voltage	LV/Std	Std	Std	Std	LV/Std	LV	Std	Std	LV	Std	Std	LV/Std	
	SLOTS TH	AT CAN B	E POPULA	TED									
18 slot servers	18	18	18	18	18	18	12	12	12	12	12	12	
	MAXIMUM		Y (GB)										
						288	48	192	384	12	24	48	

#### Memory

1 DIMM Per Channel	1333	1333	1333	1066	1333	1333	1066	1066	1066	1333	1333	1333
2 DIMM Per Channel	1333*	1333	1333	1066	1333*	1066/ 1333*	800	800	800	1333	1333	1333*
3 DIMM Per Channel	800	800	800	800	800	800**	n/a	n/a	n/a	n/a	n/a	n/a

\*2DPC: LV runs at 1066, Std voltage runs at 1333

\*\*3DPC: LV/Std voltage runs at 800

#### **NOTES:**

- Mixing DIMM speeds is allowed, but the system processor speed rules always override the DIMM capabilities
- If you do mix DIMM speeds, the memory bus will default to the minimum clock rate of all DIMMs in the system even if the slower DIMM
  is on the other processor
- If you install 1x 1066MHz DIMM in channel 1 and 1x 1333MHz DIMM in channel 2, you still run at 1066MHz
- If you install 1x 1066MHz DIMM in channel 1 and 5x 1333MHz DIMMs with 1 DIMM Per Channel (DPC) in each of the other channels, you run at 1066MHz
- If you install 3DPC in one channel (if applicable) and 1DPC in all other channels, you run at 800MHz
- References to the above MHz speeds are for the various speeds of DDR3 DIMMs; 1333 refers to DDR3-1333, etc.

#### DIMM slot and configuration diagrams Basic memory slot & population diagram

• Population order; start with "A" first, "B" second, "C" third, etc.

18 DIMM SLOTS (9 per CPU node)										
	CP	U1	CP							
	slot #	population order	slot #	population order						
Chnl 1	1	G	1	G	Chnl 1					
	2	D	2	D						
	3	Α	3	Α						
Chnl 2	4	Н	4	Н	Chnl 2					
	5	E	5	E						
	6	В	6	В						
Chnl 3	7		7		Chnl 3					
	8	F	8	F						
	9	C	9	С						

#### Standard memory configuration (1 CPU model)

• 6GB, consisting of three (3) 2GB dual-rank PC3-10600 RDIMMs

### Memory

	CPU1		CF		
	slot #	population order	slot #	population order	
Chnl 1	1	G; empty	1	G; empty	Chnl 1
	2	D; empty	2	D; empty	_
	3	A; 2GB DIMM	3	A; empty	
Chnl 2	4	H; empty	4	H; empty	Chnl 2
	5	E; empty	5	E; empty	
	6	B; 2GB DIMM	6	B; empty	<u> </u>
Chnl 3	7	l; empty	7	l; empty	Chnl 3
	8	F; empty	8	F; empty	]
	9	C; 2GB DIMM	9	C; empty	

#### Standard memory plus optional memory (1 CPU model)

- 54GB, consisting of three (3) 2GB RDIMMs plus six (6) 8GB RDIMMs
  - 3x 2GB dual-rank PC3-10600 RDIMMs
  - 6x 8GB dual-rank PC3-8500 RDIMMs

	CPU1		CP		
	slot #	population order	slot #	population order	
Chnl 1	1	G; 8GB DIMM	1	G; empty	Chnl 1
	2	D; 8GB DIMM	2	D; empty	
	3	A; 2GB DIMM	3	A; empty	
Chnl 2	4	H; 8GB DIMM	4	H; empty	Chnl 2
	5	E; 8GB DIMM	5	E; empty	]
	6	B; 2GB DIMM	6	B; empty	
Chnl 3	7	I; 8GB DIMM	7	l; empty	Chnl 3
	8	F; 8GB DIMM	8	F; empty	
	9	C; 2GB DIMM	9	C; empty	

#### Standard memory replaced with optional memory (1 CPU model) RDIMM maximum configuration

• 72GB, consisting of nine (9) 8GB dual-rank PC3-8500 RDIMMs

	C	CPU1		CPU2		
	slot #	population order	slot #	population order		
Chnl 1	1	G; 8GB DIMM	1	G; empty	Chnl 1	
	2	D; 8GB DIMM	2	D; empty	]	
	3	A; 8GB DIMM	3	A; empty	ļ	
Chnl 2	4	H; 8GB DIMM	4	H; empty	Chnl 2	
	5	E; 8GB DIMM	5	E; empty		
	6	B; 8GB DIMM	6	B; empty	ļ	
Chnl 3	7	I; 8GB DIMM	7	l; empty	Chnl 3	
	8	F; 8GB DIMM	8	F; empty	]	

### Memory

### UDIMM maximum configuration (1 CPU model)

• 12GB, consisting of six (6) 2GB dual-rank PC3-10600 UDIMMs

	CP	CPU1		CPU2	
	slot #	population order	slot #	population order	
Chnl 1	1	G; empty	1	G; empty	Chnl 1
	2	D; 2GB DIMM	2	D; empty	]
	3	A; 2GB DIMM	3	A; empty	ļ
Chnl 2	4	H; empty	4	H; empty	Chnl 2
	5	E; 2GB DIMM	5	E; empty	]
	6	B; 2GB DIMM	6	B; empty	]
Chnl 3	7	l; empty	7	l; empty	Chnl 3
	8	F; 2GB DIMM	8	F; empty	
	9	C; 2GB DIMM	9	C; empty	

#### Standard memory replaced with optional memory (2 CPU model) RDIMM maximum configuration

• 384GB, consisting of twelve (12) 32GB quad-rank PC3L-8500 RDIMMs

	CPU1				
	slot #	population order	slot #	population order	
Chnl 1	1	G; empty	1	G; empty	Chnl 1
	2	D; 32GB DIMM	2	D; 32GB DIMM	
	3	A; 32GB DIMM	3	A; 32GB DIMM	
Chnl 2	4	H; empty	4	H; empty	Chnl 2
	5	E; 32GB DIMM	5	E; 32GB DIMM	]
	6	B; 32GB DIMM	6	B; 32GB DIMM	1
Chnl 3	7	l; empty	7	l; empty	Chnl 3
	8	F; 32GB DIMM	8	F; 32GB DIMM	]
	9	C; 32GB DIMM	9	C; 32GB DIMM	

#### UDIMM maximum configuration (2 CPU model)

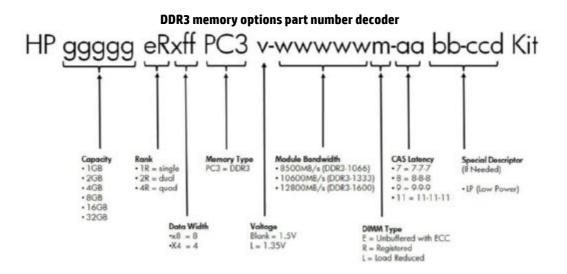
• 24GB, consisting of twelve (12) 2GB dual-rank PC3-10600 UDIMMs

### Memory

	CPU1		CF		
	slot #	population order	slot #	population order	
Chnl 1	1	G; empty	1	G; empty	Chnl 1
	2	D; 2GB DIMM	2	D; 2GB DIMM	
	3	A; 2GB DIMM	3	A; 2GB DIMM	
Chnl 2	4	H; empty	4	H; empty	Chnl 2
	5	E; 2GB DIMM	5	E; 2GB DIMM	
	6	B; 2GB DIMM	6	B; 2GB DIMM	
Chnl 3	7	l; empty	7	l: empty	Chnl 3
	8	F; 2GB DIMM	8	F; 2GB DIMM	
	9	C; 2GB DIMM	9	C; 2GB DIMM	

**NOTE:** Capacity references are rounded to the common Gigabyte values.

- 1GB = 1024MB
- 2GB = 2048MB
- 4GB = 4096MB
- 8GB = 8192MB
- 16GB = 16384MB
- 32GB = 32768MB



#### Following are memory options available from HP:

#### HP Memory Registered DIMMs (RDIMMs)

HP 2GB (1x2GB) Dual Rank x8 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit	500656-B21
HP 4GB (1x4GB) Dual Rank x4 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit	500658-B21
HP 4GB (1x4GB) Single Rank x4 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit	593339-B21
HP 4GB (1x4GB) Single Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9 Low Power Memory Kit	604504-B21
NOTE: Low Voltage DIMMs can only be used with Intel® Xeon® processor 5600 series	
processors.	
HP 8GB (1x8GB) Dual Rank x4 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit	500662-B21

## Memory

HP 8GB (1x8GB) Dual Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9 Low Power Memory Kit	604506-B21
HP 16GB (1x16GB) Quad Rank x4 PC3-8500 (DDR3-1066) Registered CAS-7 Memory Kit	500666-B21
HP 16GB (1x16GB) Dual Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9 LP Memory Kit	627812-B21
HP 32GB (1x32GB) Quad Rank x4 PC3L-8500 (DDR3-1066) Registered CAS-7 LP Memory Kit	627814-B21
<b>NOTE:</b> Low Voltage DIMMs can only be used with Intel <sup>®</sup> Xeon <sup>®</sup> processor 5600 series processors.	
Unbuffered with ECC DIMMs (UDIMMs)	
HP 1GB (1x1GB) Single Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit	500668-B21
HP 2GB (1x2GB) Dual Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit	500670-B21
HP 4GB (1x4GB) Dual Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit	500672-B21
HP 4GB (1x4GB) Dual Rank x8 PC3L-10600 (DDR3-1333) Unbuffered CAS-9 Low Power Memory Kit	619488-B21
<b>NOTE:</b> All DDR3 memory option kits consist of one DIMM per kit. For detailed memory configuration rules and guidelines, please use the Online DDR3 Memory Configuration Tool: www.hp.com/go/ddr3memory-configurator. <b>NOTE:</b> Kits described as LP include Low Power DIMMs. For more information on ProLiant	
Energy Efficient Features, see: www.hp.com/go/proliant-energy-efficient.	

**NOTE:** PC3L is a low voltage memory.

### Storage



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1-8 8 x SFF SAS Hot Pluggable Hard Drive Bays. Optical Media Bay not available for this configuration

- 1-4 4 x SFF SAS Hot Pluggable Hard Drives
- A Optical Media Bay
  - 5, 6 Blanks (these HDD Bays are not available when DVD installed)

### **Drive Support**

	Quantity Supported	Position Supported	Controller
Removable Media			
HP DL360 SL 12.7mm SATA DVD-RW	1	Slim Line Bay	Integrated SATA
HP DL360 SL 12.7mm SATA DVD <b>NOTE:</b> DVD/Optical drive options supported on 4 hard drive models only.	1	Slim Line Bay	Integrated SATA

#### **Hard Drives**

**NOTE:** The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components. **NOTE:** Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details.

#### SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives

	Quantity Supported	Position Supported	Controller
1.2TB 6G SAS 10K 900GB 6G SAS 10K 600GB 6G SAS 10K 450GB 6G SAS 10K 300GB 6G SAS 10K 300GB 6G SAS 15K 146GB 6G SAS 15K 72GB 6G SAS 15K	8	1-8	HP Smart Array P212/Zero Memory Controller HP Smart Array P212/256 MB Controller HP Smart Array P411/256 MB Controller HP Smart Array P411/512 MB BBWC Controller

#### SAS Hot Plug SFF (2.5-inch) Midline (MDL) Drives

### Storage

	Quantity Supported	Position Supported	Controller
1TB 6G SAS 7.2K 500GB 6G SAS 7.2K	8	1-8	HP Smart Array P212/Zero Memory Controller HP Smart Array P212/256 MB Controller HP Smart Array P411/256 MB Controller HP Smart Array P411/512 MB BBWC Controller

#### SATA Hot Plug SFF (2.5-inch) Midline (MDL) Drives

	Quantity Supported	Position Supported	Controller
1TB 3G SATA 7.2K 500GB 3G SATA 7.2K	8	1-8	HP Smart Array P212/Zero Memory Controller HP Smart Array P212/256 MB Controller HP Smart Array P411/256 MB Controller HP Smart Array P411/512 MB BBWC Controller

#### SATA Hot Plug 2.5" Enterprise Mainstream Solid State Drives

	Quantity Supported	Position Supported	Controller
400GB 3.0G SATA SSD 200GB 3.0G SATA SSD 100GB 3.0G SATA SSD	8	1-8	HP Smart Array P212/Zero Memory Controller HP Smart Array P212/256 MB Controller HP Smart Array P411/256 MB Controller HP Smart Array P411/512 MB BBWC Controller

#### 6G SAS Hot Plug Enterprise Performance Solid State Drives

	Quantity Supported	Position Supported	Controller
400GB 6G SAS SLC SFF 200GB 6G SAS SLC SFF	8	1-8	HP Smart Array P212/Zero Memory Controller HP Smart Array P212/256 MB Controller HP Smart Array P411/256 MB Controller HP Smart Array P411/512 MB BBWC Controller

#### 6G SAS Hot Plug Enterprise Mainstream Solid State Drives

	Quantity Supported	Position Supported	Controller
800GB 6G SAS MLC SFF 400GB 6G SAS MLC SFF 200GB 6G SAS MLC SFF	8	1-8	HP Smart Array P212/Zero Memory Controller HP Smart Array P212/256 MB Controller HP Smart Array P411/256 MB Controller HP Smart Array P411/512 MB BBWC Controller

### Storage

#### **External Storage**

	Quantity Supported	Position Supported	Host Controller or Adapter
70 Modular Smart Array	Up to 2	External	HP Smart Array P212/256 MB Controller
	Up to 4	External	HP Smart Array P411/512 MB BBWC Controller HP Smart Array P411/256 MB Controller HP Smart Array P411/1G Flash Backed Write Cache HP Smart Array P812/1G Flash Backed Cache Controller
D2600 Disk Enclosure	Up to 4	External	HP Smart Array P212/256 MB Controller
	Up to 8	External	HP Smart Array P411/256 MB Controller HP Smart Array P411/512 MB BBWC Controller HP Smart Array P411/1G Flash Backed Write Cache HP Smart Array P812/1G Flash Backed Cache Controller
D2700 Disk Enclosure	Up to 2	External	HP Smart Array P212/ 256 MB Controller
	Up to 4	External	HP Smart Array P411/256 MB Controller HP Smart Array P411/512 MB BBWC Controller HP Smart Array P411/1G Flash Backed Write Cache HP Smart Array P812/1G Flash Backed Cache Controller

#### **Tape and Disk Backup**

**NOTE:** For the complete range of tape drives, autoloaders, libraries and media, including the internal fitting models, see: http://www.hp.com/go/tape. For the complete range of D2D Backup Systems see: http://www.hp.com/go/d2d. For the complete range of RDX drives and media see: http://www.hp.com/go/rdx. For hardware and software compatibility of HP disk and tape backup products see: http://www.hp.com/storage/SPOCK.

	Position Supported	Controller	Part Number
HP SCSI Tape Drives LTO-1 Ultrium 232 LTO-2 Ultrium 448 LTO-3 Ultrium 920 LTO-3 Ultrium 960 LTO4 Ultrium 1760 LTO-4 Ultrium 1840 DAT 40 DAT 72 DAT 160 1U Rack-Mount Kit 3U Rack-Mount Kit	External	HP SC11Xe Ultra320 Single Channel/ PCIe x4 SCSI Host Bus Adapter	412911-B21
HP USB Tape Drives DAT 40 DAT 72 DAT 160 DAT 320 1U USB Rack-Mount Kit	External	USB 2.0 Port	N/A
<b>HP SAS Tape Drives</b> DAT 160 DAT 320 LTO-2 Ultrium 448 LTO-3 Ultrium 920	External	HP Smart Array P212/ZM 1-ports Int/1-ports Ext PCIe x8 SAS Controller	462828-B21

Storage			
LTO-4 Ultrium 1760 LTO-4 Ultrium 1840 LTO-5 Ultrium 3000 LTO-5 Ultrium 3280 1U Rack-Mount Kit 3U Rack-Mount Kit		<b>NOTE:</b> Please check the full compatibility information at: http://www.hp.com/storage/SPOCK	
<b>HP SCSI Tape Autoloaders</b> DAT 72x10 Autoloader 1/8 G2 Autoloader	External	HP SC11Xe Ultra320 Single Channel/ PCIe x4 SCSI Host Bus Adapter <b>NOTE:</b> Please check the full compatibility information at: http://www.hp.com/storage/SPOCK	412911-B21
<b>HP SCSI Tape Libraries, External</b> MSL2024	External	HP U320e SCSI Dual Channel Host Bus Adapter	AH627A
MSL2024 MSL4048 MSL8096 MSL6000		<b>NOTE:</b> Please check the full compatibility information at: http://www.hp.com/storage/SPOCK	
HP SAS Tape Autoloaders and Libraries 1/8 G2 Autoloader	External	HP Smart Array P212/ZM 1-ports Int/1-ports Ext PCIe x8 SAS Controller	462828-B21
MSL2024 MSL4048 MSL8096		<b>NOTE:</b> Please check the full compatibility information at: http://www.hp.com/storage/SPOCK	
HP Fibre Channel Tape Libraries MSL2024 MSL4048 MSL8096 MSL6000	External	Please consult the EBS connectivity matrix at: http://www.hp.com/go/ebs for connectivity information and the supported Fibre Channel HBAs shown in this QuickSpecs.	N/A
HP USB RDX Removable Disk Backup System RDX160 RDX320 RDX500 RDX750 RDX1TB	External	USB 2.0 Port	N/A
<b>HP D2D Backup Systems, iSCSI</b> D2D2500i D2D4000i	External	Embedded Network Controller. If the server requires a hardware iSCSI initiator, the QLogic QLA4050 Host Bus Adapter is recommended.	
HP D2D Backup Systems, Fibre Channel D2D4000fc	External	Direct server attach is not supported, requires connection via SAN fabric. See: http://www.hp.com/storage/SPOCK	N/A

## **Power Specifications**

HP 460W Common Slot Gold Hot Plug Power Supply Kit							
Part Number	503296-B2	21					
Input Voltage Range ( V rms )	100 to 240						
Frequency Range (Nominal) ( Hz )	50/60						
Nominal Input Voltage ( Vrms )	100	120	200	208	220	230	240
Maximum Rated Output Wattage Rating	460	460	460	460	460	460	460
Nominal Input Current ( A rms )	5.5	4.5	2.6	2.5	2.4	2.3	2.2
Maximum Rated Input Wattage Rating ( Watts )	526	520	505	505	503	503	503
Maximum Rated VA ( Volt-Amp )	548	542	527	527	524	524	524
Efficiency ( % )	87.5	88.5	91	91	91.5	91.5	91.5
Power Factor				0.97			
Leakage Current ( mA )	0.42	0.50	0.83	0.87	0.92	0.96	1.00
Maximum Inrush Current ( A peak )		30					
Maximum Inrush Current duration ( mS )		20					
Maximum British Thermal Unit Rating ( BTU-Hr )	1794	1773	1725	1725	1715	1715	1715

HP 460W Common Slot Platinum Hot Plug Power Supply Kit							
Part Number	593188-B2	21					
Input Voltage Range ( V rms )	100 to 240						
Frequency Range (Nominal) ( Hz )	50/60						
Nominal Input Voltage ( Vrms )	100	120	200	208	220	230	240
Maximum Rated Output Wattage Rating	460	460	460	460	460	460	460
Nominal Input Current ( A rms )	5.3	4.3	2.5	2.4	2.3	2.2	2.1
Maximum Rated Input Wattage Rating ( Watts )	512	505	493	493	492	492	491
Maximum Rated VA ( Volt-Amp )	526	518	506	506	505	505	504
Efficiency ( % )	89.8	91.2	93.2	93.3	93.5	93.6	93.6
Power Factor		0.985					
Leakage Current ( mA )	0.42	0.50	0.83	0.87	0.92	0.96	1.00
Maximum Inrush Current ( A peak )		30					
Maximum Inrush Current duration ( mS )		20					
Maximum British Thermal Unit Rating ( BTU-Hr )	1747	1722	1683	1682	1679	1678	1677

## **Power Specifications**

HP 750W Common Slot Gold Hot Plug Power Supply Kit							
Part Number	512327-B2	21					
Input Voltage Range ( V rms )	100 to 240						
Frequency Range (Nominal) ( Hz )	50/60						
Nominal Input Voltage ( Vrms )	100	120	200	208	220	230	240
Maximum Rated Output Wattage Rating	750	750	750	750	750	750	750
Nominal Input Current ( A rms )	8.9	7.4	4.3	4.1	3.9	3.7	3.6
Maximum Rated Input Wattage Rating ( Watts )	857	847	824	824	820	820	820
Maximum Rated VA ( Volt-Amp )	894	884	859	854	854	854	
Efficiency ( % )	87.5	88.5	91	91	91.5	91.5	91.5
Power Factor				0.97			
Leakage Current ( mA )	0.42	0.50	0.83	0.87	0.92	0.96	1.00
Maximum Inrush Current ( A peak )	30						
Maximum Inrush Current duration ( mS )		20					
Maximum British Thermal Unit Rating ( BTU-Hr )	2925	2892	2812	2812	2797	2797	2797

HP 750W Common Slot Platinum Hot Plug Power Supply Kit							
Part Number	593831-B2	21					
Input Voltage Range ( V rms )	100 to 240						
Frequency Range (Nominal) ( Hz )	50/60						
Nominal Input Voltage ( Vrms )	100	120	200	208	220	230	240
Maximum Rated Output Wattage Rating	750	750	750	750	750	750	750
Nominal Input Current ( A rms )	8.6	7.1	4.2	4.0	3.8	3.6	3.4
Maximum Rated Input Wattage Rating ( Watts )	841	828	809	808	807	806	805
Maximum Rated VA ( Volt-Amp )	863	850	830	829	828	827	826
Efficiency ( % )	89.2	90.6	92.7	92.8	93	93.1	93.2
Power Factor				0.985			
Leakage Current ( mA )	0.42	0.50	0.83	0.87	0.92	0.96	1.00
Maximum Inrush Current ( A peak )		30					
Maximum Inrush Current duration ( mS )		20					
Maximum British Thermal Unit Rating ( BTU-Hr )	2868	2825	2761	2757	2753	2749	2747

HP 1200W Common Slot Silver Hot Plug Power Supply Kit							
Part Number	500172-B2	1					
Input Voltage Range ( V rms )	100 to 240						
Frequency Range (Nominal) ( Hz )	50/60	*	*	•	•	*	*
Nominal Input Voltage ( Vrms )	100	120	200	208	220	230	240
Maximum Rated Output Wattage Rating	800	900	1200	1200	1200	1200	1200
Nominal Input Current ( A rms )	9.7	9.0	7.0	6.8	6.4	6.1	5.9
Maximum Rated Input Wattage Rating ( Watts )	930	1034	1348	1348	1348	1348	1348
Maximum Rated VA ( Volt-Amp )	970	1079	1406	1406	1406	1406	1406
Efficiency ( % )	86	87	89	89	89	89	89
Power Factor				0.97			
Leakage Current ( mA )	0.42	0.50	0.83	0.87	0.92	0.96	1.00
Maximum Inrush Current ( A peak )	30						
Maximum Inrush Current duration ( mS )	20						
Maximum British Thermal Unit Rating ( BTU-Hr )	3174	3530	4600	4600	4600	4600	4600

## **Power Specifications**

HP 1200W Common Slot Silver Hot Plug Power Supply Kit							
Part Number	437573-B21						
Input Voltage Range ( V rms )	36-72						
Frequency Range (Nominal) ( Hz )	DC						
Nominal Input Voltage ( Vrms )	36	48	72				
Maximum Rated Output Wattage Rating	1200	1200	1200				
Nominal Input Current ( A rms )	38	28	19				
Maximum Rated Input Wattage Rating ( Watts )	1380	1350	1365				
Maximum Rated VA ( Volt-Amp )	1380	1350	1365				
Efficiency ( % )	87	89	88				
Power Factor		N/A					
Leakage Current ( mA )		N/A					
Maximum Inrush Current ( A peak )	20	25	35				
Maximum Inrush Current duration ( mS )	1	1	3				
Maximum British Thermal Unit Rating ( BTU-Hr )	4713	4610	4662				

To review typical system power ratings use the HP Power Advisor which is available via the online tool located at URL: www.hp.com/go/proliant-energy-efficient or www.hp.com/go/hppoweradvisor

## **Technical Specifications**

System Unit	<b>Dimensions</b> (H x W x D) (with bezel)	1.70 x 16.78 x 27.25 in (4.32 x 42.62 x 69.22 cm)		
	<b>Weight</b> (approximate)	Maximum (all hard drives, power supplies, and processors installed)	39.5 lb (17.92 kg)	
		Minimum (one hard drive, power supply, and processor installed)	32 lb (14.51 kg)	
	Input Requirements (for Standard 460W PSU,	Rated Line Voltage	100 to 240 VAC	
	see power specifications tables for detail on 460W,	Rated Input Current	4.5 Amps (at 120VAC) to 2.2 Amps (at 240 VAC)	
	750W and 1200W power supplies)	Rated Input Frequency	50 to 60 Hz	
	BTU Rating	Maximum	1773 BTU / hr (at 120 VAC), 1715 (at 240 VAC)	
	Power Specifications		power ratings use the HP Power Advisor which is ol located at URL: www.hp.com/go/proliant-energy- go/hppoweradvisor	
		- Click on the system of interest. Example: DL360 G7 - Follow the instructions of the next screens.		
	<b>Power Supply Output</b> (per power supply)	Rated Steady-State Power	r 460 W (at 100 VAC), 460 W (at 200 VAC)	
		Maximum Peak Power	460 W (at 100 VAC), 460 W (at 200 VAC) <b>NOTE:</b> See Power Supply Specifications tables for complete details on 460W PSU and optional 750W and 1200W Power Supply Options.	
	System Inlet Temperature	Operating	10° to 35° C (50° to 95° F) at sea level with an altitude derating of 1.0°C per every 305 m (1.8° F per every 1000 ft) above sea level to a maximum of 3050 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 10° C/hr (18° F/hr). The upper limit may be limited by the type and number of options installed. System performance may be reduced if operating with a fan fault or above 30° C (86° F).	
		Non-operating	-30° to 60° C (-22° to 140° F). Maximum rate of change is 20° C/hr (36° F/hr).	
	<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. Maximum allowable altitude change rate is 457 m/min (1500 ft/min).	

Technical Specifications			
	Non-operating	9144 m (30,000 ft). Maximum allowable altitude change rate is 457 m/min (1500 ft/min).	
Acoustic Noise	average bystander posi the product is operating	A-Weighted sound power levels (LWAd) and declared tion A-Weighted sound pressure levels (LpAm) when g in a 23° C ambient environment. Noise emissions dance with ISO 7779 (ECMA 74) and declared in 96 (ECMA 109).	
	Idle (Single Processor, Note 1)		
	L WAd	4.3 B Average Bystander	
	L pAm	27 dBA	
	Operating		
	L WAd	4.8 B Average Bystander	
	L pAm	32 dBA	
	Idle (Dual Processors, N	Idle (Dual Processors, Note 2)	
	L WAd	4.9 B Average Bystander	
	L pAm	33 dBA	
	Operating		
	L WAd	5.4 B Average Bystander	
	L pAm	38 dBA	
	NOTES: Note 1) Configuration tested included an Intel X5520 quad-core 2.27GHz processor, one 72GB SAS HDD, four 250GB 5400 rpm SATA hard drives, six system fans, three 4GB(2x2GB) DIMM's, and one power supply (1P SKU). Note 2) Configuration tested included two Intel X5520 quad-core 2.27GHz processors, one 72GB SAS HDD, four 250GB 5400 rpm SATA hard drives, eight system fans, six 4GB(2x2GB) DIMM's, and one power supply (2P SKU). Note 3) Values are subject to change without notification and are for reference only. Note 4) Performance of system, options, and ancillary equipment will vary depending on the system configuration. Note 5) Levels presented do not account for non-Hewlett-Packard installed hardware.		
Emissions Classification	FCC Rating	Class A	
(EMC)	Normative Standards	CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; ICES-003; CNS13438; GB9254; K22; K24; EN 61000-3-2; EN 61000-3-3; EN 60950-1; IEC 60950-1	
	sample (type) testing, e	ance to cited product specifications is based on valuation, or assessment. This product or family of ear the appropriate compliance logos and statements.	

## **Technical Specifications**

Integrated Lights-Out 3	Architecture	PCI Express based health and remote management ASIC
(iLO 3) integrated on system board	Processor	PCI Express RISC processor core running at 250MHz
	Upgradeability	Option firmware upgradeable via Flash ROM.
	Video Support	1600 x 1200 DVR max resolution
	Interfaces	One Ethernet Sideband connection (10/100/1000 Mb/s)
		One Ethernet network connection (10/100Mb/s)
	Memory	128-MB SDRAM with ECC
	Operating System	Microsoft Windows 2008 R2
	Support	Microsoft Windows 2008 (32 bit and 64 bit)
		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 Embedded Systems Standard Edition, Enterprise Edition
		Red Hat Enterprise Linux 5.4 (32 bit and 64 bit)
		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
	<b>Client System Support</b>	Microsoft Windows 7
		Microsoft Windows XP Professional Edition
		Microsoft Windows Vista Business and Ultimate Editions
		Red Hat Enterprise Desktop 5.00
		SUSE Linux Enterprise Desktop 11
		SUSE Linux Enterprise Desktop 10
	<b>Client Browser Support</b>	Microsoft Internet Explorer 8
		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)
	Command Line Support	Secure Shell and serial port access
	Security	Secure Socket Layer
		Secure Shell version 2 (Password and certificate)
		Advanced Encryption Standard (AES) and Triple Data Encryption Standard (3DES) on browser, CLP and XML scripting interface
		AES encryption of video
		RC4 encryption of video
	Directory Support Services	Active Directory v1.0 (Windows 2003)
	Driver Support	HP ProLiant iLO 3 Management Controller Driver Package iLO Management Channel Interface Driver
	Management protocols supported	SNMP, IPMI 2.0 (System and LAN interface), DMTF Systems Management Architecture for Server Hardware Command Line Protocol (SMASH CLP), HP RIBCL XML

## **Technical Specifications**

Smart Array P410i	Dimensions	Embedded		
Controller	Disk Drive and Enclosure Interface - Transfer rate	6Gb/s SAS (Serial Attached SCSI) 3Gb/s SATA (Serial ATA)		
	SAS Connectors	2 internal 4X connectors		
	Cache Memory Speed	DDR2-800MHz with 40 or 72-bit wide bus		
Server Interface		x4 PCIe 2.0 provides 2GB/s	s maximum bandwidth	
	SAS Speed	8 6Gb/s SAS links provide	4.8GB/s maximum bandwidth	
	Cache Memory	Zero Memory RAID has no 40-bit 256MB ECC protecte 72-bit 512MB BBWC or 72-	ed cache (battery upgrade available)	
	Logical Drives Supported	Zero Memory, Up to 2 logical volumes (8 physical drives) Up to 64 logical drives with cache		
	Host Memory Addressing	64-bit, supporting greater than 4GB server memory space		
	RAID Support	RAID 6, 6+0 (Advanced Data Guarding) <b>NOTE:</b> RAID 6, 6+0 can be enabled with one of the following combinations:		
		option upgrades • 512 MB BBWC/FBW0 upgrades	ery kit and Smart Array Advanced Pack License key C and Smart Array Advanced Pack License key option Array Advanced Pack License key option upgrades	
		RAID 5, 5+0 (Distributed D		
		RAID 1+0 (Striping & Mirro	ring)	
		RAID 0 (Striping), RAID 1 (I	Mirroring)	
Embedded NC382i Dual Network Interface 10Base-T/100Base-TX/1000Base-TX		00Base-TX		
Port Multifunction Gigabit	Compatibility	IEEE 802.3 10Base-T		
Server Adapter		IEEE 802.3ab 1000Base-T		
		IEEE 802.3u 100Base-TX		
		IEEE 802.3ad 1000Base-TX	K	
	IEEE 802.1p 100Base-TX			
		IEEE 802.1q 100Base-TX		
	Data Transfer Method	PCI Express, four lanes (x4		
	Controller	BCM5709C		
	Network Transfer Rate	10Base-T (Half-Duplex)	10 Mb/s	
		10Base-T (Full-Duplex)	20 Mb/s	
		100Base-TX (Half-Duplex)	100 Mb/s	
		100Base-TX (Full-Duplex)	200 Mb/s	
		1000Base-TX (Half and	2000 Mb/s	
	Connector	Full-Duplex) Two RJ-45		
		10Base-T	Catagories 2. 4 or E LITD: up to 228 ft (100 m)	
	Cable Support	10Base-1 100Base-TX	Categories 3, 4 or 5 UTP; up to 328 ft (100 m) Category 5 or higher UTP; up to 328 ft (100 m)	
		100BaseTX	Category 5 or higher UTP; up to 328 ft (100 m) Category 5 or higher UTP; up to 328 ft (100 m)	
		IUUUUUUUUU	category 5 of higher of $r$ , up to 520 ft (100 III)	

### **Technical Specifications**

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.