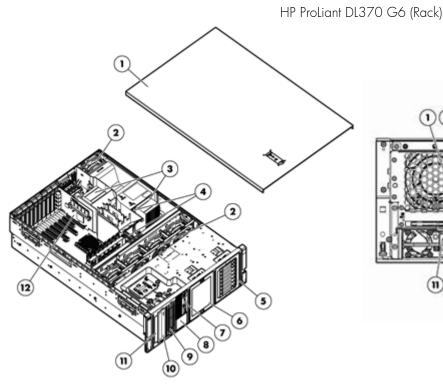
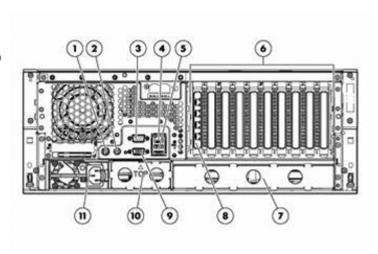
Overview





Front View:

- 1. Quick removal access panel
- 2. Three Hot-plug fans (standard) Five (optional)
- Intel Quad-Core Processor (Performance model includes two 3. processors)
 4.
- 4. Eighteen slots for DDR3 Registered or Unbuffered Memory
- 5. SAS/SATA drive cage
- 6. Optional drive cage bay
- 7. Power on/standby button
- 8. System Insight Display
- 9. Removal media bay
- 10. DVD-ROM drive
- 11. Optional slimline optical drive bay
- 12. 9 Available PCI-Express Gen2 slots; PCI-X (optional)

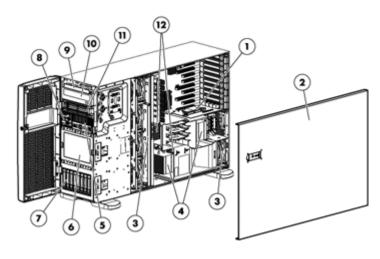
Rear View:

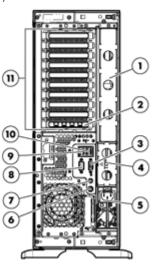
- 1. Mouse connector
- 2. Keyboard connector
 - Serial connector
 - ilO 2 connector
- 5. Two USB connectors
- 9 Available PCI-Express Gen2 expansion slots; PCI-X (optional)
- 7. PCI-X Expansion slot riser bay
- 8. Four NIC connectors
- 9. Video connector
- 10. Power supply bay 2
- 11. Power supply bay 1 (populated)



Overview

HP ProLiant ML370 G6 (Tower)





Fron	t View:	Rear	View:
1.	9 Available PCI-Express Gen2 slots; PCI-X (optional)	1.	PCI-X Expansion slot riser bay
2.	Quick removal access panel	2.	Four NIC connectors
3.	Three Hot-plug fans (standard) Five (optional)	3.	Video connector
4.	Intel Quad-Core Processor (Performance model includes tw processors)	04.	Power supply bay 2
5.	Power on/standby button	5.	Power supply bay 1 (populated)
6.	Optional drive cage bay	6.	Mouse connector
7.	SAS/SATA drive cage	7.	Keyboard connector
8.	System Insight Display	8.	Serial connector
9.	Optional slimline optical drive bay	9.	Two USB connectors
10.	DVD-ROM drive	10.	iLO 2 connector
11.	Removal media bay	11.	9 Available PCI-Express Gen2 expansion slots; PCI-X
12.	Eighteen slots for DDR3 Registered or Unbuffered Memory		(optional)

What's New

Announcing support for:

• HP 16GB 4Rx4 PC3-8500R-7 Kit

At A Glance

The next generation of the HP ProLiant ML370 (expandable tower chassis) and the new HP ProLiant DL370 (4U rack optimized chassis) deliver Industry-leading management tools, leading performance, expandability, flexibility and the latest energy efficient technologies. These servers are well-suited for deployment in growing businesses, remote office sites, or datacenters and have been designed to bring you (our customer) the utmost confidence to run your business.

Features included in both the HP ProLiant ML370 G6 and the HP ProLiant DL370 G6:

- Processors:
 - Up to two (2) Intel® Xeon® 5500 series processors series with Intel Turbo Boost technology which now allows customized adaptability for optimizing both power consumption and performance based on your respective requirements



Overview

- o Intel® 5520 chipset
- Memory:
 - o 18 DIMM slots
 - Up to 192GB, using PC3-8500R DDR3 Registered (RDIMM) memory, operating at 800MHz when fully populated at 2 DIMMs per Channel in 12 slots
 - Up to 24GB, using PC3-10600E DDR3 Unbuffered (UDIMM) memory, operating at 1066MHz when fully populated at 2 DIMMs per Channel in 12 slots
 - Two DIMMs Per Channel at 1333MHz supported with ROM update via ROM Based Setup Utility (RBSU) for 1333MHz RDIMMs. UDIMM support is only on 12-slot servers.
- Storage Controller:
 - Entry Models: HP Smart Array P410i/256 MB Controller (RAID 0/1/1+0/5/5+0) NOTE: Entry Models available for ML370 G6 models only.
 - Base Models: HP Smart Array P410i/256 MB Controller (RAID 0/1/1+0/5/5+0)
 - Performance Models: HP Smart Array P410i/512 MB BBWC Controller (RAID 0/1/1+0/5/5+0)
 - Available upgrades: 256MB, 512MB with BBWC, Battery kit upgrade (for BBWC), and Smart Array Advanced Pack (SAAP)
- Internal Drive Support:
 - Up to 24 small form factor (SFF) or 14 large form factor (LFF) hot-plug drive bays to support Serial-attached SCSI (SAS) and Serial ATA (SATA) drives
 - Standard half-height DVD-ROM (all models)
 - Two open half-height media bays available for tape drives, optical media, optional SAS HDD cage
- Network Controller:
 - HP NC375i Integrated Quad Port Multifunction Gigabit Server Adapter
- Expansion Slots:
 - Nine (9) available PCI-Express Gen2 expansion slots to provide you with the latest I/O performance (see "Standard Features -Expansion Slots" section below for more details); PCI-X (optional)
- Graphic Cards:
 - Supports up to 3 x 300W Graphic Cards via Graphic Card Power Adapter kit NOTE: 2 PCle Gen2 x16 (mechanical/electrical); 1 PCle Gen2 x16 (mechanical) x8 (electrical)
- Ports:
 - USB 2.0 support
 - 6 total ports: (2) ports in front; (2) ports in rear; (1) port for internal key; (1) port for HP internal tape
 - 1 internal Secure Digital (SD) slot
- Redundancy:
 - Multiple layers of fault tolerance through critical component redundancy (power supply and fan redundancy), mirrored memory, embedded RAID capability, and full-featured remote Lights-Out management
- Power Sources:
 - Dual Common Slot Bay for Right Sized, Hot plug and Redundant Power options
 - HP 1200W CS HE Silver Power Supply (optional)
 - HP 750W CS HE Gold Power Supply (standard on some models)
 - HP 460W CS HE Gold Power Supply (standard on some models)
- Infrastructure Management:
 - HP ProLiant Onboard Administrator (powered by the HP Integrated Lights-Out 2 management processor) for simplified server setup, health monitoring and recovery, power and thermal control, and lights-out remote administration.
 - HP Insight Control (ICE) suites, as product options, deliver essential infrastructure management that can help save time and money by making it easy to deploy, monitor, control and optimize your IT infrastructure through a single, simple management console. ICE suites support both Windows and Linux-based servers and management consoles
 - HP Insight Dynamics VSE suite for ProLiant servers, a product option, is an integrated command center that enables you to continuously analyze and optimize your adaptive infrastructure. This advanced infrastructure management software lets you reduce the cost of common data center tasks by as much as 40 percent while keeping pace with your changing



Overview

business.

- Form Factor:
 - 4U Tower Chassis and 4U Rack Optimized Chassis
 - Redesigned 4U Tower Chassis and the new 4U Rack Optimized Chassis to better meet our customer's density requirements
- Operating Systems and Virtualization Software Support for ProLiant Servers:
 - O Supports Windows, RHEL, SLES, OEL, Solaris, VMware, and Citrix Essentials for XenServer
- Deployment/Serviceability:
 - System Insight Display on the front bezel for quick and easy server diagnostics
 - Quick Deploy Rail System includes sliding universal rails, an ambidextrous cable management arm and quick release levers for fast and easy serviceability
 - O Tool-less access to all system components for easy in rack serviceability
 - Customer Self Repair (CSR): HP products are designed with many CSR parts to minimize repair time and allow for greater flexibility in performing defective parts replacement
- 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 QuickSpecs 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



Standard Features

Integrated Models" secti						
Processor	Quad-Core Processors					
One of the following depending on Model	Intel® Xeon® Processor W5580 (3.20 GHz, 8MB L3 Cache, 130W, DDR3-1333, HT, Turbo 1/1/1/2)					
	Intel® Xeon® Processor X5570 (2.93 GHz, 8MB L3 Cache, 95W, DDR3-1333, HT, Turbo 2/2/3/3)					
	Intel® Xeon® Processor X5560 (2.80 GHz, 8MB L3 Cache, 95W, DDR3-1333, HT, Turbo 2/2/3/3)					
	Intel® Xeon® Processor X5550 (2.66 GHz, 8MB L3 Cache, 95W, DDR3-1333, HT, Turbo 2/2/3/3)					
	Intel® Xeon® Processor E5540 (2.53 GHz, 8MB L3 Cache, 80W, DDR3-1066, HT, Turbo 1/1/2/2)					
	Intel® Xeon® Processor E5530 (2.40 GHz, 8MB L3 Cache, 80W, DDR3-1066, HT, Turbo 1/1/2/2)					
	Intel® Xeon® Processor E5520 (2.26 GHz, 8MB L3 Cache, 80W, DDR3-1066, HT, Turbo 1/1/2/2)					
	Intel® Xeon® Processor E5506 (2.13 GHz, 4MB L3 Cache, 80W, DDR3-800)					
	Intel® Xeon® Processor E5504 (2.00 GHz, 4MB L3 Cache, 80W, DDR3-800)					
	Intel® Xeon® Processor L5520 (2.26 GHz, 8MB L3 Cache, 60W, DDR3-1066, HT, Turbo 1/1/2/2)					
	Dual-Core Processors					
	Intel® Xeon® Processor E5502 (1.86 GHz, 4MB L3 Cache, 80W, DDR3-800)					
	NOTE: Up to 2 processors supported. Performance configurations include two processors. Mixing					
	different processor models is not supported.					
	NOTE: 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.					
	NOTE: DDR3 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed.					
	NOTE: For the Intel 5500 Series, the letter preceding the model number indicates the					
	performance/wattage of the processor. "X" denotes High Performance/Wattage; "E" denotes Enterprise Performance/Wattage (Mainstream); and "L" denotes Lower Wattage.					
Cache Memory	8MB (1 x 8MB) Level 3 cache					
One of the following	NOTE: All processor models except for those identified below.					
depending on Model	4MB (1 x 4MB) Level 3 cache					
	NOTE: For processors E5506/E5504/E5502.					
Upgradeability	Upgradeable to two processors					
Chipset	Intel® 5520 chipset NOTE: For more information regarding Intel chipsets, please see the following URL: http://www.intel.com/products/server/chipsets/.					



Standard Features

Memory Protection

Mirroring mode
Lockstep mode

Advanced ECC

Memory	Туре	DDR3 Registered (RDIMM) or	or Unbuffered (UDIMM)
One of the following depending on Model	Standard (Performance Models)	12 GB (6 x 2 GB) RDIMM	
	Standard (Base Models)	6 GB (3 x 2 GB) RDIMM	
	Standard (Entry Model)	4 GB (2 x 2 GB) RDIMM	
	Maximum (RDIMM)	192 GB (12 x 16 GB) for Re	Registered Memory configurations
	Maximum (UDIMM)		buffered Memory configurations
	1333MHz, 1066MHz, or 8 www.hp.com/go/ddr3mema	00MHz. Please see the Online ory-configurator. include Low Power DIMMs. For	essor model, the memory speed may run at e Memory Configuration Tool at: r more information on ProLiant Energy Efficient
		DDR3 memory options pa	art number decoder
	HP ggggg el		wwwm-aa-bb-ccd Kit
	RANK - 1R*si - 1GB - 1GB - 2GB - 4GB - 8GB - 8GB - 16GB - 16GB - 16GB - 16GB - 16GB - 16GB - 16GB - 16GB - 167 - 167 - 17 - 18 - 1	aai aad MODULE BANDWIDTH • 8500MB/s (D • 10600MB/s (D • 10600MB/s (D • 14	ODR3-1066) ODR3-1066) ODR3-1066) ODR3-1066) ODR3-1086) ODR3-1086 ODR
		MEMORY TYPE	R=Registered

PC3=DDR3

Network Controller HP NC375i Integrated Quad Port Multifunction Gigabit Server Adapter



Standard Features

Expansion Slots	Expansion Slo #	ots Technology	Bus Width	Connector Width	Form Factor	Notes
	1	PCle	×4	x8	Half length, full height	
	2	PCle2	×4	×8	Full Length/Full Height	
	3	PCle2	x16	x16	Full Length/Full Height	
	4	PCle2	x4	×8	Full Length/Full Height	
	5	PCle2	×4	×8	Full Length/Full Height	
	6	PCle2	×8	x16	Full Length/Full Height	
	7	PCle2	×4	×8	Full Length/Full Height	
	8	PCle2	x16	x16	Full Length/Full Height	
	9	PCle2	×4	×8	Full Length/Full Height	
	10	PCle2	Х8	Х8	Half length, full height	Utilized by NIC controller "Use the correct model number for the NIC"
	11	PCI-X	See note	See note	Full Length/Full Height	(optional) *Up to 64bits/133Mhz speed when only one device install in slot 11 and 12 *up to 64bits/100Mhz speed when both slot 11 and 12 are utilized.
	12	PCI-X	See note	See note	Full Length/Full Height	(optional)
	*Default bus ass	ignment. Inserting c	cards with PCI bri	dges may alter th	e actual bus assig	gnment number.



Standard Features					
Storage Controller One of the following depending on Model	Entry Models Base Models Performance Models	HP Smart Array	P410i/256 MB Controller (RAID 0/1/1+0/5/5+0) P410i/256 MB Controller (RAID 0/1/1+0/5/5+0) P410i/512 MB BBWC Controller (RAID +0/6)		
	Available upgrades: 256 Advanced Pack (SAAP).	MB, 512MB with	BBWC, Battery kit upgrade (for BBWC), and Smart Array		
Storage	Diskette Drive	None Standard			
	Optical Drive Hard Drives	SATA DVD RON None Standard	1 (standard in all models)		
Maximum Internal Stc Type	pra be t Plug SFF SAS Hot Plug LFF SAS	7.20TB 14 TB	24 x 300GB 14 x 1TB		
· · · ·					
Interfaces	Serial Pointing Device (Mouse)	l (rear)			
	VGA	1 (+1 front VGA on rack models)			
	Keyboard	Ì	,		
	Network RJ-45 (Ethernet)	4 (rear)			
	ILO 2.0 remote management port	1			
	SD slot	1			
	USB 2.0 Ports	NOTE: Please support:	, 2 on the front, 1 internal) see the following URL for additional information regarding USB .www1.hp.com/products/servers/platforms/usb-		
	Dedicated USB 2.0 Port		DAT USB tape connectivity) USB ports are optimal for the attachment of HP DAT USB ives		
Graphics	Integrated ATI RN50, 64	MB video standa	rd		
	 16 bit color: maximum resolution of 1600 x 1200 32 bit color: maximum resolution of 1280 x 1024 				
	NOTE: Maximum resolut	ion available via i	.O 2 remote console is 1280 x 1024.		
Form Factor	4U Rack and Tower form factor (7 in, 17.8 cm)				
HP Insight Software	HP Insight Foundation	Managing the growing number of servers can be complex and expensive for your organization. IT managers need to address changing business needs			
	DA - 13242 Wo	rldwide QuickSpe	cs — Version 14 — 10.2.2009 Page 8		

Worldwide QuickSpecs — Version 14 — 10.2.2009

DA - 13242

invent

Standard Features

with tools that meet the challenges of managing today's complex Datacenters.

HP provides management solutions that are designed to simplify a server's installation, configuration and maintenance throughout the entire server lifecyle. This provides the customer with higher levels of operational efficiency and highly reliable systems: www.hp.com/go/foundation. The foundation pack includes:

- HP SmartStart
- HP Management
- HP ProLiant Firmware Maintenance

SmartStart version supported (minimum): SmartStart 8.20 http://www.hp.com/servers/smartstart

ProLiant Onboard HP ProLiant Onboard Administrator (powered by the HP Integrated Lights-Out Administrator 2 management processor) simplifies server setup, health monitoring, power and thermal control, and lights-out remote administration of ProLiant ML, DL, and BL servers. HP ProLiant Onboard Administrator functions without additional software, and can be accessed from any location via a web browser. It works hand-in-hand with HP Systems Insight Manager, Insight Control suites, and the Insight Dynamics-VSE suite helping customers unlock the value of the ProLiant platform and deliver the highest possible quality of IT service to the business. See www.hp.com/go/ProLiantOA HP Insight Control suites HP Insight Control suites, as product options, deliver essential infrastructure management that can help save time and money by making it easy to deploy, monitor, remote control, and optimize your IT infrastructure through a

single, simple management console. Insight Control suites install and license software modules that are integrated into HP System Insight Manager.

Two Insight Control suites are available, to serve environments requiring either Linux-based or Windows-based central management servers: HP Insight Control suite for Linux, and HP Insight Control suite. See www.hp.com/qo/insightcontrol

HP Insight Control suites include one year of 24 x 7 HP Software Technical Support and Update Service ensuring rapid access to HP support staff and proactive delivery of software updates. For more information about this service, please visit: http://www.hp.com/services/insight.

suite

HP Insight Dynamics – VSE The HP Insight Dynamics - VSE suite for ProLiant, a product option, is an integrated command center that enables you to continuously analyze and optimize your adaptive infrastructure. This advanced infrastructure management software that allows you to analyze and optimize your adaptive infrastructure to manage physical and virtual resources in the same way. HP Insight Dynamics - VSE gives you a powerful toolkit to accelerate complex technology projects and simplify daily operations. It enables you to plan capacity and power continuously, balance across physical and virtual resources, ensure cost-effective high availability, and provision infrastructure consistently.

HP Insight Orchestration, an optional extension to Insight Dynamics - VSE,



Standard	Features	

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.

HP Insight Recovery, also an optional extension for Insight Dynamics - VSE, enables cost-effective disaster recovery for physical and virtual environments. Application environments can be reactivated in minutes with the touch of a button to a remote location.

NOTE: For more information, visit: http://www.hp.com/go/insightdynamics, http://www.hp.com/go/insightorchestration, http://www.hp.com/go/insightrecovery

Industry Standard Compliance	ACPI V2.0 Compliant PCI-Express Gen2 PXE Support WOL Support Microsoft® Logo certifications USB 2.0 Support SMBIOS 2.6.1
Security	Power-on password Keyboard password Diskette drive control Diskette boot control QuickLock, Network Server Mode Serial interface control Administrator's password

Security Trusted PlatforrFrusted Platform Module option kit Module

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.



Standard Features	
Server Power Cords	High voltage power cord ships standard with all part numbers. Localized cables included with geographic specific models in other world regions. NOTE: ProLiant DL servers no longer ship standard with NEMA power cords (187335-001) 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 now ship standard with only a PDU power cord (416151-B21). If a user wishes to power a ProLiant DL server using a 110V receptacle (NEMA-15), the above NEMA power cord must be ordered separately.
UPS Power Cord Matr	ixPlease 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.
Power Supply One of the following depending on Model	HP has a new design for ProLiant power- the new Common Slot Power Supply bay. This design provides the customer with commonality in power supplies across multiple platforms to save on the cost of spares and allows HP to offer multiple power solutions to fit the customers' needs. Many HP ProLiant Servers come with Common Slot, High Efficiency and Right-Size Power Supplies. The new HP Common Slot power supplies are designed for the highest power efficiency without degrading performance of the ProLiant server. Power Supplies have efficiency ratings up to 92%. There are three Right Size power options available depending on the configuration of your server. To make sure you select the correct power supply to meet your configuration, please use the HP Power Advisor at www.hp.com/go/proliant- energy-efficient" or www.hp.com/go/hppoweradvisor. All HP Common Slot power sources are UL, CE Mark Compliant, Hot Plug and Redundant.
Common Slot ProLiant	It is highly recommended that you use the HP Power Advisor in defining the "Right-Size" power supply for your needs. HP offers four Power Supply Options:
System Fans	(3) Hot Plug fans ship standard NOTE: For full redundancy you can purchase the HP ML370 G6 and DL370 G6 Redundant Fan Kit; PN: 508107-B21.



Standard Features

Required Cabling

For external storage cabling information, refer to the Web site at: www.hp.com/servers/dl370 or www.hp.com/servers/ml370.

	nd Microsoft Windows Server e Microsoft Windows Server 2008 Hyper-V
	Red Hat Enterprise Linux (RHEL)
Servers	SUSE Linux Enterprise Server (SLES)
	Oracle Enterprise Linux (OEL)
	Solaris 10 for x86/x64 based Systems
	VMware
	HP Citrix Essentials for 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, please visit our Support Matrix at: http://www.hp.com/go/ossupport and our driver download page http://www.hp.com/support/ML370G6.

Rack Airflow Requireme**Rts**ck 10000 G2 series Cabinets

The increasing power of new high-performance processor technology requires increased cooling efficiency for rack-mounted servers. The 10000 Series Racks provide enhanced airflow for maximum cooling, allowing these racks to be fully loaded with servers using the latest processors.

CAUTION: If a third-party rack is used, observe the following additional requirements to ensure adequate airflow and to prevent damage to the equipment:

- Front and rear doors: If your 42U server rack includes closing front and rear doors, you must allow 830 square inches (5,350 sq cm) of hole evenly distributed from top to bottom to permit adequate airflow (equivalent to the required 64 percent open area for ventilation).
- Side: The clearance between the installed rack component and the side panels of the rack must be a minimum of 2.75 inches (7 cm).

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

NOTE: For additional information, refer to the Setup and Installation Guide or the Documentation CD provided with the server, or to the server documentation located in the Support section at the following URL: www.hp.com/servers/proliantml370g6.

Rack Kit Quick deploy rail system provides tool-free support for racks with square or round mounting holes (including Compaq/HP 7000, 9000, 10000 G2 and HP series), with an adjustment range of 24" - 36". The ambidextrous cable management arm can be mounted on either the left or right side for improved cable management.

Telco Rack Support Support for all 2-post Telco racks requires the use of the standard rack kit and an additional option kit from Rack Solutions at: http://www.racksolutions.com/hp/



Standard Features

Factory Express PortfolibP Factory Express offers configuration, customization, integration and deployment services for HP servers for Servers and Storageand 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 Enterprise Configurative HP eConfigure Enterprise Configurator now provides factory default racking for our HP hardware portfolio. This approach is aligned with our strategic direction to meet the needs and expectations of our valued customers. If you require "custom" rack configuration, please contact HP's Customer Business Center or an Authorized Partner for assistance. http://www.hp.com/products/configurator

Service and Support HP Care Pack services provide total care and support expertise with committed response designed to meet your IT and business needs.

HP Care Pack services include coverage for the HP branded hardware options qualified for the server and purchased at the same time or afterward that are internal to the enclosure. This also includes the 22" and smaller external monitors and tower UPS options up to 3kVA. These items will be covered at the same service level and for the same coverage period as the server. Coverage of UPS Battery is not included, and standard warranty terms & conditions apply. For servers or storage systems installed within a rack, service also covers all HP qualified rack options installed within the same rack.

To fully capitalizing on your HP ProLiant servers' capabilities requires a service partner who thoroughly understands your server technology and systems environment. HP Services, an industry leader in provision of multi vender support solutions, provides a range of support services designed to meet the varying needs of your business. Whether an SMB, or large global corporation, HP has a ProLiant server support offer to help you speedily deploy and maximize system uptime.

Recommended Service - simplify ProLiant solution implementation, maintenance, and management.

- Support 3-Year 4-Hour response 24x7 Same Business Day Coverage only
- Service Installation and Start up only

Enhanced Service - optimize service level to increase IT performance and availability.

• Support - 3-Year Support Plus 24 only

Refer to the information on "Installation & Start-Up" for service on ProLiant server and Microsoft or Linux O/S per the Customer Description and/or Data Sheet; to be delivered on a scheduled basis 8am-5pm, M-F, excluding HP holidays.

NOTE: For a complete listing of service offerings and information visit:



Standard Features

http://www.hp.com/services/proliantservices http://www.hp.com/go/proliant/carepack



HPC Interconnects

NOTE: High Performance Computing (HPC) interconnect technologies are available for this server under the Cluster Platform product portfolio. These high-speed interconnects are fully supported by HP when they are part of these configure to order clusters. Solutions can be defined with a lot of flexibility with the help of configuration tools. Please visit the following URL to configure HPC Clusters with InfiniBand, Gigabit Ethernet or Myrinet Interconnects: http://www.hp.com/techservers/clusters/ucp/index.html.

HPC Interconnect

InfiniBand Gigabit Ethernet Myrinet XP PCI-X and PCI-Express adapters Use embedded ports PCI-X Rev D and Rev E adapters



Models

Base Models

HP ProLiant DL370 G6 E5530 2.40GHz Quo		(1)
ESS30 2.40GHz Qua Core SFF Base Rack Server 487794-xx1	Cache Memory Memory Network Controller Storage Controller Hard Drive	8MB (1 × 8MB) L3 cache 6GB (3 × 2GB) PC3-10600 (DDR3-1333) Registered DIMMs HP NC375i Integrated Quad Port Multifunction Gigabit Server Adapter HP Smart Array P410i/256MB Controller None ship standard
	Internal Storage	(8) SFF SAS/SATA HD Bays (Standard); Up to (24) SFF SAS/SATA with optional drive cage (up to three 8 SFF drive cage can be installed)
	Optical Drive	SATA DVD ROM
	PCI-Express Slots	10 slots - (9) available PCI-e Gen2 slots (NOTE: 10 slots available, one is taken by the NIC riser card)
	Power Supply	(1) 750W Hot Plug Power Supply
	Fans	(3) Hot Plug Fans
	Form Factor	4U Rack

Performance Models

HP ProLiant DL370 G6 X5550 2.66GHz Quad Core SFF High Performance Rack Serv 487790-xx1	d Casha Maman <i>i</i>	 (2) Intel® Xeon® Processor X5550 (2.66 GHz, 8MB L3 cache, 95W, DDR3-1333, HT, Turbo 2/2/3/3) 8MB (1 x 8MB) L3 cache 12GB (6 x 2GB) PC3-10600 (DDR3-1333) Registered DIMMs HP NC375i Integrated Quad Port Multifunction Gigabit Server Adapter HP Smart Array P410i/512MB with BBWC None ship standard (8) SFF SAS/SATA HD Bays (Standard); Up to (24) SFF SAS/SATA with optional drive cage (up to three 8 SFF drive cage can be installed) SATA DVD ROM 10 slots - (9) available PCI-e Gen2 slots (NOTE: 10 slots available, one is taken by the NIC riser card) (2) 750W Redundant Hot Plug Power Supplies (5) Fully Redundant Hot Plug Fans
	Form Factor	4U Rack



Models

HP ProLiant DL370 G6 X5550 2.66GHz Qua Core SFF Performance ICE Rack Server 576411-xx1	ıd	 (2) Intel® Xeon® Processor X5550 (2.66 GHz, 8MB L3 cache, 95W, DDR3-1333, HT, Turbo 2/2/3/3) 8MB (1 x 8MB) L3 cache 12GB (6 x 2GB) PC3-10600 (DDR3-1333) Registered DIMMs HP NC375i Integrated Quad Port Multifunction Gigabit Server Adapter HP Smart Array P410i/512MB with BBWC HP Insight Control Environment No Media single server license, including 1
	Hard Drive	year of 24x7 Technical Support and Updates None ship standard
	Internal Storage	(8) SFF SAS/SATA HD Bays (Standard); Up to (24) SFF SAS/SATA with optional drive cage (up to three 8 SFF drive cage can be installed)
	Optical Drive	SATA DVD ROM
	PCI-Express Slots	10 slots - (9) available PCI-e Gen2 slots (NOTE: 10 slots available, one is taken by the NIC riser card)
	Power Supply	(2) 750W Redundant Hot Plug Power Supplies
	Insight Control Environment (ICE)	HP Insight Control Environment No Media single server license, including 1 year of 24x7 Technical Support and Updates
	Fans	(5) Fully Redundant Hot Plug Fans
	Form Factor	4U Rack

Base Tower Models: Quad-Core

HP ProLiant ML370 Ge E5540 2.53GHz Qua	ıd	(1) Intel® Xeon® Processor E5540 (2.53 GHz, 8MB L3 cache, 80W, DDR3-1066, HT, Turbo 1/1/2/2)
Core SFF Base Tower	Cache Memory	8MB (1 x 8MB) L3 cache
Server 487791-xx1	Memory	6GB (3 x 2GB) PC3-10600 (DDR3-1333) Registered DIMMs
407791-XX1	Network Controller	HP NC375i Integrated Quad Port Multifunction Gigabit Server Adapter
	Storage Controller	HP Smart Array P410i/256MB Controller
	Hard Drive	None ship standard
	Internal Storage	(8) SFF SAS/SATA HD Bays (Standard); Up to (24) SFF SAS/SATA with optional drive cage (up to three 8 SFF drive cage can be installed)
	Optical Drive	SATA DVD ROM
	PCI-Express Slots	10 slots - (9) available PCI-e Gen2 slots (NOTE: 10 slots available, one is taken by the NIC riser card)
	Power Supply	(1) 750W Hot Plug Power Supply
	Fans	(3) Hot Plug Fans
	Form Factor	4U Tower



Models

Entry Tower Models: Quad-Core

HP ProLiant ML370 G6 E5520 2.26GHz Qua		(1) Intel® Xeon® Processor E5520 (2.26 GHz, 8MB L3 cache, 80W, DDR3-1066, HT, Turbo 1/1/2/2)
Core SFF Entry Tower Server 487795-xx1	Cache Memory Memory Network Controller Storage Controller Hard Drive Internal Storage	 8MB (1 x 8MB) L3 cache 4 GB (2 x 2 GB) PC3-10600 (DDR3-1333) Registered DIMMs HP NC375i Integrated Quad Port Multifunction Gigabit Server Adapter HP Smart Array P410i/256MB Controller None ship standard (8) SFF SAS/SATA HD Bays (Standard); Up to (24) SFF SAS/SATA with optional drive cage (up to three 8 SFF drive cage can be installed)
	Optical Drive	SATA DVD ROM
	PCI-Express Slots	10 slots - (9) available PCI-e Gen2 slots (NOTE: 10 slots available, one is taken by the NIC riser card)
	Power Supply	(1) 460W Hot Plug Power Supply
	Fans	(3) Hot Plug Fans
	Form Factor	4U Tower

Country Code Key

	Tower Code Key	Rack Code Key
XX=00	U.S.	U.S.
XX=01	Australia	N/A
XX=03	UK	N/A
XX=04	Germany	N/A
XX=05	France	N/A
XX=20	Brazil	Brazil
XX=29	Japan	Japan
XX=37	A/P	A/P
XX=42	Europe	Europe
XX=AA	PRC	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 CTO product offerings and requirements.

NOTE: HP does not allow factory integration of options into standard models listed above. Configure-to-order servers must start with a CTO Chassis.

NOTE: FIO indicates that this option only available as a Factory Installable Option.

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

Mod	е	s

Infiguration (choose one of the following configurable mod	ieis)
HP ProLiant ML370 G6 Tower Models HP ProLiant ML370 G6 SFF CTO Chassis	483880-B21
NOTE: Supports Small Form Factor (SFF) - 2.5" Drives	403000-DZ1
Factory Integrated Model ships with:	
HP NC375i Integrated Quad Port Multifunction Gigabit Server Adapter	
Integrated Lights-Out embedded	
HP Smart Array P410i/Zero Memory Controller	
(8) Hot-Plug (SFF) SAS/SATA Drive Bays	
(9) available PCI-e Gen2 slots	
(5) USB ports(3) Hot Plug Fans	
Tower Form Factor	
HP ProLiant ML370 G6 Tower CTO Chassis	
HP ProLiant ML370 G6 LFF CTO Chassis	483879-B21
NOTE: Supports Large Form Factor (LFF) - 3.5" Drives	
Factory Integrated Model ships with:	
HP NC375i Integrated Quad Port Multifunction Gigabit Server Adapter	
Integrated Lights-Out embedded	
HP Smart Array P410i/Zero Memory Controller (6) Hot-Plug (LFF) SAS/SATA Drive Bays	
(9) available PCI-e Gen2 slots	
(5) USB ports	
(3) Hot Plug Fans	
Tower Form Factor	
HP ProLiant DL370 G6 Rack Models	
HP ProLiant DL370 G6 SFF CTO Chassis NOTE: Supports Small Form Factor (SFF) - 2.5" Drives	483874-B21
Factory Integrated Model ships with:	
HP NC375i Integrated Quad Port Multifunction Gigabit Server Adapter Integrated Lights-Out embedded	
HP Smart Array P410i/Zero Memory Controller	
(8) Hot-Plug (SFF) SAS/SATA Drive Bays	
(9) available PCI-e Gen2 slots	
(5) USB ports(3) Hot Plug Fans	
4U Rack Form Factor	
HP ProLiant DL370 G6 LFF CTO Chassis	483873-B21
NOTE: Supports Large Form Factor (LFF) - 3.5" Drives	



Configuration Information - Factory Integrated Models

Factory Integrated Model ships with:

HP NC375i Integrated Quad Port Multifunction Gigabit Server Adapter Integrated Lights-Out embedded
HP Smart Array P410i/Zero Memory Controller
(6) Hot-Plug (LFF) SAS/SATA Drive Bays
(9) available PCI-e Gen2 slots
(5) USB ports
(3) Hot Plug Fans
4U Rack Form Factor

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

Processors	NOTE: If High Performance Model features are desired, 2nd processor is included in the Performance Pack part numbers in Step 3 below.	
	Quad-Core Processors	
	Intel® Xeon® Processor W5580 (3.20 GHz, 8MB L3 Cache, 130W, DDR3-1333, HT, Turbo 1/1/1/2), FIO	495928-L21
	Intel® Xeon® Processor X5570 (2.93 GHz, 8MB L3 Cache, 95W, DDR3-1333, HT, Turbo 2/2/3/3), FIO	495930-L21
	Intel® Xeon® Processor X5560 (2.80 GHz, 8MB L3 Cache, 95W, DDR3-1333, HT, Turbo 2/2/3/3), FIO	495932-L21
	Intel® Xeon® Processor X5550 (2.66 GHz, 8MB L3 Cache, 95W, DDR3-1333, HT, Turbo 2/2/3/3), FIO	495934-L21
	Intel® Xeon® Processor E5540 (2.53 GHz, 8MB L3 Cache, 80W, DDR3-1066, HT, Turbo 1/1/2/2), FIO	495936-L21
	Intel® Xeon® Processor E5530 (2.40 GHz, 8MB L3 Cache, 80W, DDR3-1066, HT, Turbo 1/1/2/2), FIO	495938-L21
	Intel® Xeon® Processor E5520 (2.26 GHz, 8MB L3 Cache, 80W, DDR3-1066, HT, Turbo 1/1/2/2), FIO	495940-L21
	Intel® Xeon® Processor E5506 (2.13 GHz, 4MB L3 Cache, 80W, DDR3-800), FIO	495942-L21
	Intel® Xeon® Processor E5504 (2.00 GHz, 4MB L3 Cache, 80W, DDR3-800), FIO	495944-L21
	Intel® Xeon® Processor L5520 (2.26 GHz, 8MB L3 Cache, 60W, DDR3-1066, HT, Turbo 1/1/2/2), FIO	505511-L21
	Dual-Core Processors	
	Intel® Xeon® Processor E5502 (1.86 GHz, 4MB L3 Cache, 80W, DDR3-800), FIO	495946-L21
Base Memory	Registered DIMMs (RDIMMs)	
	HP 2GB 2Rx8 PC3-10600R-9 Kit	500656-B21
	HP 4GB 2Rx4 PC3-10600R-9 Kit	500658-B21
	HP 4GB 4Rx8 PC3-8500R-7 LP Kit	500660-B21
	HP 8GB 2Rx4 PC3-8500R-7 Kit	516423-B21
	HP 8GB 2Rx4 PC3-10600R-9 Kit	500662-B21
	HP 16GB 4Rx4 PC3-8500R-7 Kit	500666-B21
	Unbuffered with ECC DIMMs (UDIMMs)	
	HP 1GB 1Rx8 PC3-10600E-9 Kit	500668-B21



Configuration Information - Factory Integrated Models

	HP 2GB 2Rx8 PC3-10600E-9 Kit	500670-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: Kits described as LP include Low Power DIMMs. For more information on ProLiant Energy Efficient Features, see: www.hp.com/go/proliant-energy-efficient	
Power Supply	NOTE: Refer to HP Power Advisor when selecting a power supply for your configuration, www.hp.co/go/hppoweradvisor. Many HP ProLiant Servers now offer new power options, including Common Slot Power Supplies. These power supplies come in multiple power ratings and higher efficiency levels to offer the Right Size solution to fit your configuration. This provides improved power delivery and the advantage of reclaiming lost power. 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/proliant-energy-efficient" or www.hp.com/go/hppoweradvisor	
	HP 460W CS HE Gold Power Supply	503296-B21
	HP 750W CS HE Gold Power Supply	512327-B21
	HP 1200W CS HE Silver Power Supply	500172-B21
	NOTE: Option Kits contain optional power supply, an IEC power cable and PDU IEC cables.	

Step 3: Choose Additional Factory Integratable Options

NOTE: Available for P410i only.46290512MB BBWC46290HP Smart Array P212/256 MB w/ Battery FIO49119HP Smart Array P410/256 MB w/ Battery FIO49119HP Smart Array P411/256 MB w/ Battery FIO49119Performance PacksPerformance Packs are necessary to configure a HP Proliant DL370 G6 or a HP Proliant ML370 G6 to a High Performance Model which includes the latest performance technologies and enterprise class availability features pre-installed for convenience and value. The Performance Pack includes a 2nd processor, redundant fans, power supply, and memory expansion board. NOTE: Must also select 447326-B21 to achieve parity to DL370 G6 or ML370 G6 High Performance Models.		, 0 1	
NOTE: Available for P410i only.46290512MB BBWC46290HP Smart Array P212/256 MB w/ Battery FIO49119HP Smart Array P410/256 MB w/ Battery FIO49119HP Smart Array P411/256 MB w/ Battery FIO49119Performance PacksPerformance Packs are necessary to configure a HP Proliant DL370 G6 or a HP Proliant ML370 G6 to a High Performance Model which includes the latest performance technologies and enterprise class availability features pre-installed for convenience and value. The Performance Pack includes a 2nd processor, redundant fans, power supply, and memory expansion board. NOTE: Must also select 447326-B21 to achieve parity to DL370 G6 or ML370 G6 High Performance Models.	Controllers		
HP Smart Array P212/256 MB w/ Battery FIO49119HP Smart Array P410/256 MB w/ Battery FIO49119HP Smart Array P411/256 MB w/ Battery FIO49119Performance PacksPerformance Packs are necessary to configure a HP Proliant DL370 G6 or a HP Proliant ML370 G6 to a High Performance Model which includes the latest performance technologies and enterprise class availability features pre-installed for convenience and value. The Performance Pack includes a 2nd processor, redundant fans, power supply, and memory expansion board. NOTE: Must also select 447326-B21 to achieve parity to DL370 G6 or ML370 G6 High Performance Models.			534108-B21
HP Smart Array P410/256 MB w/ Battery FIO49119HP Smart Array P411/256 MB w/ Battery FIO49119Performance PacksPerformance Packs are necessary to configure a HP Proliant DL370 G6 or a HPProliant ML370 G6 to a High Performance Model which includes the latest performance technologies and enterprise class availability features pre-installed for convenience and value. The Performance Pack includes a 2nd processor, redundant fans, power supply, and memory expansion board. NOTE: Must also select 447326-B21 to achieve parity to DL370 G6 or ML370 G6 High Performance Models.		512MB BBWC	462967-B21
HP Smart Array P411/256 MB w/ Battery FIO49119Performance PacksPerformance Packs are necessary to configure a HP Proliant DL370 G6 or a HP Proliant ML370 G6 to a High Performance Model which includes the latest performance technologies and enterprise class availability features pre-installed for convenience and value. The Performance Pack includes a 2nd processor, redundant fans, power supply, and memory expansion board. NOTE: Must also select 447326-B21 to achieve parity to DL370 G6 or ML370 G6 High Performance Models.		HP Smart Array P212/256 MB w/ Battery FIO	491191-B21
Performance Packs Performance Packs are necessary to configure a HP ProLiant DL370 G6 or a HP ProLiant ML370 G6 to a High Performance Model which includes the latest performance technologies and enterprise class availability features pre-installed for convenience and value. The Performance Pack includes a 2nd processor, redundant fans, power supply, and memory expansion board. NOTE: Must also select 447326-B21 to achieve parity to DL370 G6 or ML370 G6 High Performance Models.		HP Smart Array P410/256 MB w/ Battery FIO	491195-B21
ProLiant ML370 G6 to a High Performance Model which includes the latest performance technologies and enterprise class availability features pre-installed for convenience and value. The Performance Pack includes a 2nd processor, redundant fans, power supply, and memory expansion board. NOTE: Must also select 447326-B21 to achieve parity to DL370 G6 or ML370 G6 High Performance Models.		HP Smart Array P411/256 MB w/ Battery FIO	491193-B21
HP ML370 G6 and DL370 G6 X5550 HPM FIO Perf Kit 51672	Performance Packs	ProLiant ML370 G6 to a High Performance Model which includes the latest performance technologies and enterprise class availability features pre-installed for convenience and value. The Performance Pack includes a 2nd processor, redundant fans, power supply, and memory expansion board. NOTE: Must also select 447326-B21 to achieve parity to DL370 G6 or ML370 G6	
		HP ML370 G6 and DL370 G6 X5550 HPM FIO Perf Kit	516727-B21

Step 4: Choose Additional Options for Factory Integration

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



Core Options

information.	may not be available for factory integration. Please contact an HP sales representative for ad	
Unique Options	(8) Small Form Factor (SFF) 2nd Drive Cage Kit	507803-B21
	(6) Large Form Factor (LFF) Backplane Kit	507810-B21
	(2) Large Form Factor (LFF) Drive Cage Kit	487936-B21
	HP ML370 G6 Tower to Rack Conversion Kit	515031-B21
	HP ML370 G6 and DL370 G6 Redundant Fan Kit	508107-B21
	HP ML370 G6 and DL 370 G6 Graphic Card Adapter Kit	537721-B21
	NOTE: An option kit will be required per Graphic Card)	
	NOTE: 2 PCIe Gen2 x16 (mechanical/electrical); 1 PCIe Gen2 x16 (mechanical) x8 (electrical)	
	HP ML370 G6 and DL370 G6 Smart-mini DIMM Module	519808-B21
	NOTE: By plugging the Smart-mini DIMM Module to the HP NC375i Integrated	0.,000.22.
	Quad Port Multifunction Gigabit Server Adapter, TCP/IP Offload Engine (TOE) for	
	Windows is enabled/supported.	
	HP ML370 G6 and DL370 G6 PCI-X Riser Kit NOTE: Customers purchasing the PCI-X Riser Kit, must also purchase the Redundant	516434-B21
	Fan kit (508107-B21)	
Processors	Quad-Core Processors	105000 001
	Intel® Xeon® Processor W5580 (3.20 GHz, 8MB L3 Cache, 130W, DDR3-1333, HT, Turbo 1/1/1/2)	495928-B21
	Intel® Xeon® Processor X5570 (2.93 GHz, 8MB L3 Cache, 95W, DDR3-1333, HT, Turbo 2/2/3/3)	495930-B21
	Intel® Xeon® Processor X5560 (2.80 GHz, 8MB L3 Cache, 95W, DDR3-1333, HT, Turbo 2/2/3/3)	495932-B21
	Intel® Xeon® Processor X5550 (2.66 GHz, 8MB L3 Cache, 95W, DDR3-1333, HT, Turbo 2/2/3/3)	495934-B21
	Intel® Xeon® Processor E5540 (2.53 GHz, 8MB L3 Cache, 80W, DDR3-1066, HT, Turbo 1/1/2/2)	495936-B21
	Intel® Xeon® Processor E5530 (2.40 GHz, 8MB L3 Cache, 80W, DDR3-1066, HT, Turbo 1/1/2/2)	495938-B21
	Intel® Xeon® Processor E5520 (2.26 GHz, 8MB L3 Cache, 80W, DDR3-1066, HT, Turbo 1/1/2/2)	495940-B21
	Intel® Xeon® Processor E5506 (2.13 GHz, 4MB L3 Cache, 80W, DDR3-800)	495942-B21
	Intel® Xeon® Processor E5504 (2.00 GHz, 4MB L3 Cache, 80W, DDR3-800)	495944-B21
	Intel® Xeon® Processor L5520 (2.26 GHz, 8MB L3 Cache, 60W, DDR3-1066, HT, Turbo 1/1/2/2)	505511-B21
	Dual-Core Processors	
	Intel® Xeon® Processor E5502 (1.86 GHz, 4MB L3 Cache, 80W, DDR3-800)	495946-B21



Core Options		
Memory	Registered DIMMs (RDIMMs)	
	HP 2GB 2Rx8 PC3-10600R-9 Kit	500656-B21
	HP 4GB 2Rx4 PC3-10600R-9 Kit	500658-B21
	HP 4GB 4Rx8 PC3-8500R-7 LP Kit	500660-B21
	HP 8GB 2Rx4 PC3-8500R-7 Kit	516423-B21
	HP 8GB 2Rx4 PC3-10600R-9 Kit	500662-B21
	HP 16GB 4Rx4 PC3-8500R-7 Kit	500666-B21
	Unbuffered with ECC DIMMs (UDIMMs)	
	HP 1GB 1Rx8 PC3-10600E-9 Kit	500668-B21
	HP 2GB 2Rx8 PC3-10600E-9 Kit	500670-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: Kits described as LP include Low Power DIMMs. For more information on ProLiant Energy Efficient Features, see: www.hp.com/go/proliant-energy-efficient	
Optical Drives	HP Half-Height SATA DVD-ROM Optical Drive	447326-B21
I	HP Half-Height SATA DVD-RW Optical Drive	447328-B21
	HP Slim SATA DVD-ROM Optical Drive	481041-B21
	HP Slim SATA DVD RW Optical Drive	481043-B21
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 SEE Enterprise (ENT) Drives	
	SAS Hot Plug SFF Enterprise (ENT) Drives	507127-B21
	SAS Hot Plug SFF Enterprise (ENT) Drives HP 300GB 6G SAS 10K SFF DP ENT HDD	
	SAS Hot Plug SFF Enterprise (ENT) Drives HP 300GB 6G SAS 10K SFF DP ENT HDD HP 300GB 3G SAS 10K SFF DP ENT HDD	492620-B21
	SAS Hot Plug SFF Enterprise (ENT) Drives HP 300GB 6G SAS 10K SFF DP ENT HDD HP 300GB 3G SAS 10K SFF DP ENT HDD HP 146GB 6G SAS 15K SFF DP ENT HDD	492620-B21 512547-B21
	SAS Hot Plug SFF Enterprise (ENT) Drives HP 300GB 6G SAS 10K SFF DP ENT HDD HP 300GB 3G SAS 10K SFF DP ENT HDD HP 146GB 6G SAS 15K SFF DP ENT HDD HP 146GB 3G SAS 15K SFF DP ENT HDD	492620-B21 512547-B21 504062-B21
	SAS Hot Plug SFF Enterprise (ENT) Drives HP 300GB 6G SAS 10K SFF DP ENT HDD HP 300GB 3G SAS 10K SFF DP ENT HDD HP 146GB 6G SAS 15K SFF DP ENT HDD	492620-B21 512547-B21 504062-B21 507125-B21
	SAS Hot Plug SFF Enterprise (ENT) Drives HP 300GB 6G SAS 10K SFF DP ENT HDD HP 300GB 3G SAS 10K SFF DP ENT HDD HP 146GB 6G SAS 15K SFF DP ENT HDD HP 146GB 3G SAS 15K SFF DP ENT HDD HP 146GB 6G SAS 10K SFF DP ENT HDD	492620-B21 512547-B21 504062-B21 507125-B21 418367-B21
	SAS Hot Plug SFF Enterprise (ENT) Drives HP 300GB 6G SAS 10K SFF DP ENT HDD HP 300GB 3G SAS 10K SFF DP ENT HDD HP 146GB 6G SAS 15K SFF DP ENT HDD HP 146GB 3G SAS 15K SFF DP ENT HDD HP 146GB 6G SAS 10K SFF DP ENT HDD HP 146GB 3G SAS 10K SFF DP ENT HDD	492620-B21 512547-B21 504062-B21 507125-B21 418367-B21 512545-B21
	SAS Hot Plug SFF Enterprise (ENT) Drives HP 300GB 6G SAS 10K SFF DP ENT HDD HP 300GB 3G SAS 10K SFF DP ENT HDD HP 146GB 6G SAS 15K SFF DP ENT HDD HP 146GB 3G SAS 15K SFF DP ENT HDD HP 146GB 6G SAS 10K SFF DP ENT HDD HP 146GB 3G SAS 10K SFF DP ENT HDD HP 72GB 6G SAS 15K SFF DP ENT HDD	507127-B21 492620-B21 512547-B21 504062-B21 507125-B21 418367-B21 512545-B21 418371-B21 384842-B21
	SAS Hot Plug SFF Enterprise (ENT) Drives HP 300GB 6G SAS 10K SFF DP ENT HDD HP 300GB 3G SAS 10K SFF DP ENT HDD HP 146GB 6G SAS 15K SFF DP ENT HDD HP 146GB 3G SAS 15K SFF DP ENT HDD HP 146GB 6G SAS 10K SFF DP ENT HDD HP 146GB 3G SAS 10K SFF DP ENT HDD HP 72GB 6G SAS 15K SFF DP ENT HDD HP 72GB 3G SAS 15K SFF DP ENT HDD HP 72GB 3G SAS 10K SFF DP ENT HDD	492620-B21 512547-B21 504062-B21 507125-B21 418367-B21 512545-B21 418371-B21
	SAS Hot Plug SFF Enterprise (ENT) Drives HP 300GB 6G SAS 10K SFF DP ENT HDD HP 300GB 3G SAS 10K SFF DP ENT HDD HP 146GB 6G SAS 15K SFF DP ENT HDD HP 146GB 3G SAS 15K SFF DP ENT HDD HP 146GB 6G SAS 10K SFF DP ENT HDD HP 146GB 3G SAS 10K SFF DP ENT HDD HP 72GB 6G SAS 15K SFF DP ENT HDD HP 72GB 3G SAS 15K SFF DP ENT HDD	492620-B21 512547-B21 504062-B21 507125-B21 418367-B21 512545-B21 418371-B21
	SAS Hot Plug SFF Enterprise (ENT) Drives HP 300GB 6G SAS 10K SFF DP ENT HDD HP 300GB 3G SAS 10K SFF DP ENT HDD HP 146GB 6G SAS 15K SFF DP ENT HDD HP 146GB 6G SAS 15K SFF DP ENT HDD HP 146GB 6G SAS 10K SFF DP ENT HDD HP 146GB 3G SAS 10K SFF DP ENT HDD HP 72GB 6G SAS 15K SFF DP ENT HDD HP 72GB 3G SAS 15K SFF DP ENT HDD HP 72GB 3G SAS 10K SFF DP ENT HDD SAS Hot Plug 3.5" Enterprise (ENT) Drives	492620-B21 512547-B21 504062-B21 507125-B21 418367-B21 512545-B21 418371-B21 384842-B21
	SAS Hot Plug SFF Enterprise (ENT) Drives HP 300GB 6G SAS 10K SFF DP ENT HDD HP 300GB 3G SAS 10K SFF DP ENT HDD HP 146GB 6G SAS 15K SFF DP ENT HDD HP 146GB 3G SAS 15K SFF DP ENT HDD HP 146GB 6G SAS 10K SFF DP ENT HDD HP 146GB 3G SAS 10K SFF DP ENT HDD HP 72GB 6G SAS 15K SFF DP ENT HDD HP 72GB 3G SAS 15K SFF DP ENT HDD HP 72GB 3G SAS 15K SFF DP ENT HDD HP 72GB 3G SAS 10K SFF DP ENT HDD HP 72GB 3G SAS 15K SFF DP ENT HDD HP 72GB 3G SAS 15K SFF DP ENT HDD HP 72GB 3G SAS 10K SFF DP ENT HDD HP 72GB 3G SAS 10K SFF DP ENT HDD HP 72GB 3G SAS 10K SFF DP ENT HDD	492620-B21 512547-B21 504062-B21 507125-B21 418367-B21 512545-B21 418371-B21 384842-B21



Core Options		
	HP 300GB 3G SAS 15K 3.5" DP ENT HDD	416127-B21
	HP 146GB 3G SAS 15K 3.5" DP ENT HDD	384854-B21
	SAS Hot Plug SFF Midline (MDL) Drives	
	HP 500GB 6G SAS 7.2K SFF DP MDL HDD	507610-B21
	SAS Hot Plug 3.5" Midline (MDL) Drives	
	HP 1TB 3G SAS 7.2K 3.5" DP MDL HDD	461137-B21
	HP 750GB 3G SAS 7.2K 3.5" DP MDL HDD	461135-B21
	NOTE: 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 Midline (MDL) Drives	
	HP 500GB 3G SATA 7.2K 2.5in MDL HDD	507750-B21
	HP 160GB 3G SATA 7.2K 2.5in MDL HDD	530888-B21
	SATA Hot Plug 3.5" Midline (MDL) Drives	
	HP 1TB 3G SATA 7.2K 3.5" MDL HDD	454146-B21
	HP 750GB 3G SATA 7.2K 3.5" MDL HDD	458930-B21
	HP 500GB 3G SATA 7.2K 3.5" MDL HDD	458928-B21
	HP 250GB 3G SATA 7.2K 3.5" MDL HDD	458926-B21
	SATA Hot Plug 3.5" Entry (ETY) Drives	
	HP 160GB 3G SATA 7.2K 3.5" ETY HDD	458945-B21
	SATA Hot Plug SFF Entry (ETY) Drives	
	HP 250GB 3G SATA 5.4K SFF ETY HDD	460355-B21
	HP 120GB 1.5G SATA 5.4K SFF ETY HDD	458924-B21
	NOTE: 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 Midline (MDL) Solid State Drives	
	HP 60GB 3G SATA 2.5in MDL 1y Wty SSD	572071-B21
	HP 120GB 3G SATA 2.5in MDL 1y Wty SSD	572073-B21
	SATA Hot Plug 3.5" Midline (MDL) Solid State Drives	
	HP 60GB 3G SATA 3.5in MDL 1y Wty SSD	570761-B21
	HP 120GB 3G SATA 3.5in MDL 1y Wty SSD	570763-B21
	NOTE: Please see the QuickSpecs for Technical Specifications and additional information:	
	http://h18000.www1.hp.com/products/quickspecs/13415_div/13415_div.html (Worldwide)	



Core Options

Communications	Networking	
	Gigabit Ethernet adapters	
	HP NC112T PCle Gigabit Server Adapter	503746-B21
	HP NC360T PCI Express Dual Port Gigabit Server Adapter	412648-B21
	HP NC364T PCI Express Quad Port Gigabit Server Adapter NOTE: There is a maximum of five NC364T PCI Express Quad Port Gigabit Server Adapters allowed in this server.	435508-B21
	HP NC373F PCI Express Multifunction Gigabit Server Adapter	394793-B21
	HP NC373T PCI Express Multifunction Gigabit Server Adapter	394791-B21
	HP NC382T PCI Express Dual Port Multifunction Gigabit Server Adapter	458492-B21
	10 Gigabit Ethernet adapters	
	HP NC522SFP Dual Port 10GbE Gigabit Server Adapter NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each NC522SFP adapter. NOTE: Direct Attach Cable (DAC) for copper environments or fiber transceivers and cables for fiber-optic environments must be purchased separately.	468332-B21
	HP NC524SFP Dual Port 10GbE Server Adapter NOTE: One NC524SFP allowed per system; a minimum of two gigabytes (2 GB) of server memory is required for the NC524SFP module. NOTE: Direct Attach Cable (DAC) for copper environments or fiber transceivers and cables for fiber-optic environments must be purchased separately.	489892-B21
	NOTE: Please see the QuickSpecs for Technical Specifications and additional information: www.hp.com/go/ProLiantNICs.	
	Smart-mini DIMM Module	
	HP ML370 G6 and DL370 G6 Smart-mini DIMM Module NOTE: By plugging the Smart-mini DIMM Module to the HP NC375i Integrated Quad Port Multifunction Gigabit Server Adapter, TCP/IP Offload Engine (TOE) for Windows is enabled/supported.	519808-B21
Riser Cage Options	HP DL370 G6 2 Slot PCI-X Riser Kit NOTE: Customers purchasing the PCI-X Riser Kit, must also purchase the Redundant Fan kit (508107-B21)	516434-B21



Core Options

Power	Supplies

CAUTION: Many HP ProLiant Servers now offer new power options, including Common Slot Power Supplies. These power supplies come in multiple power ratings and higher efficiency levels to offer the Right Size solution to fit your configuration. This provides improved power delivery and the advantage of reclaiming lost power. 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/proliant-energy-efficient" or www.hp.com/go/hppoweradvisor. In ProLiant Servers that have more than one power slot (bay), only same size power supplies are recommended. If non-matched power supplies are inserted you will get errors and operation will fail.	
HP 460W CS HE Gold Power Supply	503296-B21
HP 750W CS HE Gold Power Supply	512327-B21
HP 1200W CS HE Silver Power Supply	500172-B21
NOTE: Option Kits contain optional power supply, an IEC power cable and PDU IEC cables.	
Power Options	
HP ML370 G6 and DL370 G6 Redundant Fan Kit	508107-B21



Additional Options

HP Insight Control suitesHP Insight Control suite

HP Insight Control Environment, No Media 1-Server License including 1 year of 24x7 Technical Support and Updates NOTE: Customer will receive a license entitlement certificate, which must be	452148-B22
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.	
HP Insight Control Management Software Media Kit NOTE: Insight Software DVD media without licenses. Contains HP Systems Insight Manager and Insight software products and components licensed by the Insight Control suite. Uses an integrated installer to perform quick and accurate software installation and updates.	436222-B21
NOTE: For additional License Kits, please see the QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/12631_div/12631_div.html	
HP Insight Control suite for Linux (ICE-LX)	
HP Insight Control suite for Linux, Media pack (DVD) - No licenses included NOTE: This optional Media pack DVD contains the ISO image for HP Insight Control Environment for Linux, HP System Insight Manager, HP Insight Power Manager, HP Insight Virtual Machine Management software, and an integrated installer. Servers must be acquired separately.	464422-B22
NOTE: This Media pack is optional because the latest ISO image and latest updates may be downloaded at no cost from: http://www.hp.com/go/ice-linux (click on Download button).	
HP Insight Control suite for Linux, No Media, 1-Server license, including one year of 24x7 Technical Support and Updates NOTE: This part number can be used to purchase one (1) license with a single activation key. Customer will receive a printed license entitlement certificate via physical shipment. 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. NOTE: One certificate is shipped for each license.	464423-B22
NOTE: For additional License Kits, including electronic licensing options, please see the QuickSpecs at:	
http://h18000.www1.hp.com/products/quickspecs/13019_div/13019_div.html	
HP Integrated Lights-Out Advanced	
HP Integrated Lights-Out Advanced, No Media, 1-Server License, including 1 year of 24x7 Technical Support and Updates NOTE: This license allows 1 server to be deployed and managed via HP iLO Advanced. Customer will receive a printed license entitlement certificate via physical shipment. 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 Service NOTE: For additional license kits, including electronic delivery options, please see the QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/12362_div/12362_div.html HP Insight Rapid Deployment software	512485-B21
HP Insight Rapid Deployment software No Media 1-Server License including 1 year of	452151-B21



Additional Options		
	24x7 Technical Support and Updates NOTE: This license allows 1 server to be deployed and managed via RDP. Customer will receive a printed license entitlement certificate via physical shipment. 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 Service NOTE: For additional license kits, including electronic delivery options, please see the QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/11053_div/11053_div.html	
Drive Cage Options	(8) Small Form Factor (SFF) 2nd Drive Cage Kit	507803-B21
<u> </u>	(6) Large Form Factor (LFF) Backplane Kit	507810-B21
	(2) Large Form Factor (LFF) Drive Cage Kit	487936-B21
Graphic Cards	HP ML370 G6 and DL370 G6 Graphic Card Cable Kit NOTE: An option kit will be required per Graphic Card.	537721-B21
	NOTE: 2 PCle Gen2 x16 (mechanical/electrical); 1 PCle Gen2 x16 (mechanical) x8 (electrical)	
Secure Digital (SD)	HP Photosmart 2GB Secure Digital (SD) Card	L1877A
Memory Cards	HP Photosmart 4GB Secure Digital High Speed Card (SDHC)	L1878A#707
Security	HP Trusted Platform Module Option Kit	488069-B21
Storage Controllers	SAS Controllers	
	HP Smart Array P800 Controller	
	HP Smart Array P800/512 BBWC Controller	381513-B21
	HP Smart Array P212 Controller	
	HP Smart Array P212/Zero Memory Controller	462828-B21
	HP Smart Array P212/256 MB Controller	462834-B21
	HP Smart Array P410 Controller	
	HP Smart Array P410/256 MB Controller	462862-B21
	HP Smart Array P410/512 MB with BBWC Controller	462864-B21
	HP Smart Array P411 Controller	
	HP Smart Array P411/256 MB Controller	462830-B21
	HP Smart Array P411/512 MB with BBWC Controller	462832-B21
	Optional Upgrades	
	256 MB Cache Module	462968-B21
	NOTE: Supported on HP Smart Array P212 Controller only.	
	512MB BBWC NOTE: When used with the embedded HP Smart Array P410i controller, this battery module also requires a 24 inch SFP Battery Cable (496029-B21).	462967-B21



HP ProLiant ML370 Generation 6

QuickSpecs

Additional Options

Battery Kit upgrade NOTE: To enable BBWC on the 256MB cache. NOTE: Supported on HP P410i Smart Array (integrated), HP Smart Array P212 Controller, HP Smart Array P410 Controller, and HP Smart Array P411 Controller only.	462969-B21
HP Smart Array Advanced Pack No Media 1-Server license including 1yr 24x7 Technical Support NOTE: This part number can be used to purchase a single license or to order multiple licenses with a single activation key. Customers will receive a license entitlement certificate via e-mail. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Include one year of 24x7 HP Software Technical Support Services.	516471-B21
NOTE: Please see the QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/12616_div/12616_div.html (Smart Array P800 Controller)	
http://h18000.www1.hp.com/products/quickspecs/13203_div/13203_div.html (Smart Array P212 Controller) http://h18000.www1.hp.com/products/quickspecs/13201_div/13201_div.html (Smart Array P410 Controller)	
http://h18000.www1.hp.com/products/quickspecs/13202_div/13202_div.html (Smart Array P411 Controller)	
SAS Controller Options HP SAS Expander Card NOTE: For use with the additional 8 SFF drive cage (507803-B21).	468406-B21
NOTE: Please see the QuickSpecs for Technical Specifications and additional information: http://h18004.www1.hp.com/products/quickspecs/13232_div/13232_div.html (SAS Expander Card)	
SAS HBA HP SC08Ge Host Bus Adapter NOTE: Please see the QuickSpecs for Technical Specifications and additional	488765-B21
information: http://h18004.www1.hp.com/products/quickspecs/13082_div/13082_div.html (SC08Ge HBA)	



Additional Option	ns	
Power Cords	NOTE: HP ProLiant servers ships with an IEC-IEC power cord used for rack mounting with Power Distribution Units (PDUs).	
	Nema 5-15P to IEC320-C13, North America low voltage (6 ft/2 m)	AF556A
	Power Cord, Euro, 10A 250 V Straight (6 ft/1.83 m)	AF568A
	Power Cord, UK, 10A 250 V Straight (6 ft/1.83 m)	AF570A
	Power Cord, Danish, 10A 250 V Straight (6 ft/1.83 m)	AF566A
	Power Cord, Swiss, 10A 250 V Straight (6 ft/1.83 m)	AF565A
	Power Cord, Italian, 10A 250 V Straight (6 ft/1.83 m)	AF571A
	Power Cord, South Africa, 10A 250 V Straight (8.2 ft/2.5 m)	AF567A
Tape Storage	NOTE: For the complete listing of Tape Drive offerings, please see: http://www.hp.com/products1/storage/compatibility/tapebackup/ISS/index.html	
	For recommended tape drive offerings for this ProLiant server see the following:	
	Tape Drives	
	USB Rack-Mount Tape Solutions	
	HP StorageWorks DAT 160 USB Internal Drive	Q1580A
	SAS Rack-Mount Tape Solutions	
	HP StorageWorks LTO-2 Ultrium 448 SAS Internal Tape Drive	DW085A
	HP StorageWorks LTO-3 Ultrium 920 SAS Internal Tape Drive	EH847A
	HP StorageWorks LTO-4 Ultrium 1760 SAS Internal Tape Drive	EH919A
	NOTE: For the ML370 G6, HP recommends purchasing the HP Smart Array P212 Controller (462828-B21) for a dedicated SAS HBA for tape. NOTE: Please refer to the "Tape Drives, Tape Autoloaders & Tape Libraries" table in the Storage section of this document for a list of SAS controllers with tape support.	
	HP StorageWorks 1/8 G2 Tape Autoloader	
	HP StorageWorks 1/8 G2 LTO-4 Ultrium 1760 SAS Tape Autoloader	AK377A
	HP StorageWorks 1/8 G2 LTO-3 Ultrium 920 SAS Autoloader	AH558A
	HP StorageWorks 1/8 G2 Tape Autoloader Rack Kit	AH166A
	NOTE: Required to install the 1/8 G2 Autoloaders in a standard 19-inch rack; includes rails and rackmount instructions.	
	NOTE: Please reference the Tape Autoloader QuickSpecs at: http://www.hp.com/go/automation for additional information needed to create a complete solution; reference current compatibility information at: http://www.hp.com/go/ebs.	
	HP StorageWorks MSL2024 Tape Library	
	HP StorageWorks MSL2024 1 LTO-4 Ultrium 1760 SAS Drive Library	AK378A
	HP StorageWorks MSL2024 1 LTO-3 Ultrium 920 SAS Drive Library	AH559A
	HP StorageWorks MSL4048 Tape Library	
	HP StorageWorks MSL4048 2 LTO-4 Ultrium 1760 SAS Drive Library	AK380A
	HP StorageWorks MSL4048 1 LTO-3 Ultrium 920 SAS Drive Library	AH560A



	NOTE: Please reference the MSL Tape Library QuickSpecs at: http://www.hp.com/go/automation for additional information needed to create a complete solution; reference current compatibility information at: http://www.hp.com/go/ebs.	
Disk-Based Backup	RDX Removable Disk Backup	
	HP StorageWorks RDX500 Internal Removable Disk Backup System NOTE: 500GB of Disk Storage.	AJ934A
	D2D Backup	
	HP StorageWorks D2D120 Backup System with Data Protector Express Software Kit NOTE: 2TB of Disk Storage.	EH924A
	HP StorageWorks D2D130 Backup System with LTO-3 Ultrium 920 SAS Tape Drive NOTE: 3TB of Disk Storage.	EH952A
	HP StorageWorks D2D2503i Backup System NOTE: 3TB of Disk Storage.	EH945A
	HP StorageWorks D2D4004i Backup System NOTE: 4.5TB of Disk Storage.	EH938A
	NOTE: Please see the HP D2D Backup Systems QuickSpecs for additional information: http://www.hp.com/go/d2d.	

Linux. For detailed compatibility information please see: http://h18006.www1.hp.com/storage/saninfrastructure/hba.html

hip://niouuo.wwwi.np.com/slorage/saninirasiruciure/nba.nimi	
Brocade Fibre Channel HBAs	
HP StorageWorks 81B PCI-e FC HBA Single Port	AP769A
HP StorageWorks 82B PCI-e FC HBA Dual Port	AP770A
HP StorageWorks 41B 4Gb PCI-e FC HBA	AP767A
HP StorageWorks 42B 4Gb Dual-Port PCI-e FC HBA	AP768A
Emulex Fibre Channel HBAs	
HP StorageWorks 81E PCI-e FC HBA Single Port	AJ762A
HP StorageWorks 82E PCI-e FC HBA Dual Port	AJ763A
HP StorageWorks FC2142 4Gb PCI-e HBA	A8002A
HP StorageWorks FC2242 Dual Channel 4Gb PCI-e HBA	A8003A
QLogic Fibre Channel HBAs	
HP StorageWorks 81Q PCI-e FC HBA Single Port	AK344A
HP StorageWorks 82Q PCI-e FC HBA Dual Port	AJ764A
HP StorageWorks FC1142 4Gb PCI-e HBA	AE311A
HP StorageWorks FC1242 Dual Channel 4Gb PCI-e HBA	AE312A



Additional Options		
HP StorageWorks	MSA SAN Storage Arrays	
Modular Smart Array	HP StorageWorks 50 Modular Smart Array	364430-B21
	NOTE: Please see the Modular Smart Array 50 QuickSpecs for additional information including configuration steps and additional options needed for a complete solution at: http://h18000.www1.hp.com/products/quickspecs/12245_div/12245_div.html (Worldwide)	
	HP StorageWorks 60 Modular Smart Array	418408-B21
	NOTE: Please see the Modular Smart Array 60 QuickSpecs for additional information including configuration steps and additional options needed for a complete solution at: http://h18000.www1.hp.com/products/quickspecs/12627_div/12627_div.html	
	HP StorageWorks 70 Modular Smart Array	418800-B21
	NOTE: Please see the Modular Smart Array 70 QuickSpecs for additional information including configuration steps and additional options needed for a complete solution at: http://h18000.www1.hp.com/products/quickspecs/12652_div/12652_div.html (Worldwide)	
Uninterruptible Power	HP Tower UPS	
Systems	HP T1000v Uninterruptible Power System	
	HP T1000v UPS	AF443A
	NOTE: The T1000v is available in China and India only.	
	NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/13130_div/13130_div.html (Worldwide)	
	HP T1500 G3 UPS Models	
	HP T1 500 G3 UPS, NA	AF450A
	HP T1500 G3 UPS, INTL	AF451A
	NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/13160_div/13160_div.html (Worldwide)	
	HP Rack-mountable UPS	
	HP R1500 G2 UPS	
	HP, R1.5kVA UPS, 1U, NA	AF419A
	HP, R1.5kVA UPS, 1U, INTL	AF418A
	HP, R1.5kVA UPS, 1U, JPN/TW	AF421A
	NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/12507_div/12507_div.html (Worldwide)	
	HP R3000 UPS	
	HP R3000 VA UPS, 2U, DTC, INTL	AF414A
	HP R3000 VA UPS, 2U, Low Voltage L5-30, NA	AF422A
	HP R3000 VA UPS, 2U, High Voltage L6-20, NA	AF423A
	HP R3000 VA UPS, 2U, High Voltage L6-20, JPN	AF424A
	HP R3000 VA UPS, 2U, Low Voltage L5-30, JPN	AF425A



HP ProLiant ML370 Generation 6

QuickSpecs

Additional Options

NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/10671_div/10671_div.html (Worldwide)	
HP R/T3000 Uninterruptible Power System (UPS)	
HP R/T3000 UPS, Low voltage NA/JPN	AF452A
HP R/T3000 UPS, High voltage, NA/JPN	AF453A
HP R/T3000 UPS, High voltage, detachable inlet cord INTL	AF454A
NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/13417_div/13417_div.html (Worldwide)	
HP Rack-Mountable R5500 UPS	
HP R5500 VA UPS, INTL	AF416A
HP R5500 VA UPS, NA/JPN	AF426A
NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/11871_div/11871_div.html (Worldwide) NOTE: For additional information on HP Uninterruptible Power Systems please go to: www.hp.com/servers/rackups.	

Power Distribution UnitsMonitored PDUs

HP Monitored Power Distribution Unit: Full Rack Version	
HP 17.3 kVA S2324 Monitored PDU- dual input, 3Ø, 24A (NA/JPN)	AF503A
HP 8.6 kVA S1324 Monitored PDU- single input, 3Ø, 24A (NA/JPN)	AF504A
HP 16.6 kVA S2140 Monitored PDU- dual input, 1Ø, 40A (NA/JPN)	AF505A
HP 8.3 S1140 Monitored PDU- single input, 1Ø, 40A (NA/JPN)	AF506A
HP 22.1 kVA S2316 Monitored PDU- dual input, 3Ø, 16A (INTL)	AF507A
HP 11 kVA S1316 Monitored PDU- single input, 3Ø, 16A (INTL)	AF508A
HP 14.7 kVA S2132 Monitored PDU- dual input, 1Ø, 32A (INTL)	AF509A
HP 7.3 kVA S1132 Monitored PDU- single input, 1Ø, 32A (INTL)	AF510A
HP Monitored Power Distribution Unit: Half Rack Version	
HP 4.9 kVA S124 Monitored PDU- single input, 1Ø, 24A (NA/JPN)	AF914A
HP 7.3 kVA S132 Monitored PDU- single input, 1Ø, 32A (INTL)	AF915A
Modular Power Distribution Units 1U/OU (Up to 32 outlets)	
HP Two Fixed Cord Extension Bars	351655-B21
NOTE: Two extension bar sticks; each with (7) C13 plugs.	
2.8 kVA Modular PDU, 24A	252663-D71
3.6 kVA Modular PDU, 16A	252663-B24
4.9 kVA Modular PDU, 24A	252663-D72
8.3 kVA Modular PDU, 40A	252663-B21
8.3 kVA Modular PDU, 40A	252663-D73
8.3 kVA Modular PDU, 40A	252663-D75
4.9 kVA Modular PDU, 24A	252663-D74



Additional Options		
	NOTE: For additional information on HP Power Distribution Units including accessories please go to: www.hp.com/go/pdu (Worldwide)	
HP Rack Series	HP Rack 5000 Series (Graphite Metallic)	
	HP 5642 Rack-Unassembled	358254-B21
	NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/12074_div/12074_div.html (Worldwide)	
	HP Rack 10000 G2 Series (Carbon/Graphite Metallic)	
	10642 G2 (42U) Rack Cabinet 1200mm Deep - Shock Pallet	AF034A
	10642 G2 (42U) Rack Cabinet 1200mm Deep - Pallet	AF038A
	10647 G2 (47U) Rack Cabinet 1200mm Deep - Shock Pallet NOTE: Due to handling and shipping requirements, AF044A is only orderable through HP Factory Express. It is not for direct sales. Customer site surveys are required before an order is approved. CTO orders may require additional lead time.	AF044A
	10647 G2 (47U) Rack Cabinet 1200mm Deep - Pallet	AF045A
	NOTE: It is mandatory to use a shock pallet when shipping racks with equipment installed. NOTE: xxxxxx-B22 (shock pallet) used to ship racks with equipment installed (by	
	custom systems, VARs and Channels). NOTE: Please see the QuickSpecs for Technical Specifications and additional	
	information: http://h18000.www1.hp.com/products/quickspecs/12402_div/12402_div.html (Worldwide) NOTE: For additional information regarding Rack Cabinets, please see the following	
	URL: http://www.hp.com/go/rackandpower.	
HP Rack Options	Monitors and keyboards	
	TFT7600 Rackmount Keyboard Monitor US	AG052A
	TFT7600 Rackmount Keyboard Monitor UK	AG053A
	TFT7600 Rackmount Keyboard Monitor GR	AG054A
	TFT7600 Rackmount Keyboard Monitor FR	AG055A
	TFT7600 Rackmount Keyboard Monitor IT	AG056A
	TFT7600 Rackmount Keyboard Monitor SP	AG057A
	TFT7600 Rackmount Keyboard Monitor DEN	AG058A
	TFT7600 Rackmount Keyboard Monitor NOR	AG059A
	TFT7600 Rackmount Keyboard Monitor SE/FI	AG060A
	TFT7600 Rackmount Keyboard Monitor SWI	AG061A
	TFT7600 Rackmount Keyboard Monitor PORT	AG062A
	TFT7600 Rackmount Keyboard Monitor BEL	AG063A
	TFT7600 Rackmount Keyboard Monitor JPN2	AG064A
	TFT7600 Rackmount Keyboard Monitor RUS	AG065A
	TFT7600 Rackmount Keyboard Monitor INT	AG066A



Page 34

Additional Options

1U Rackmount Keyboard with USB, US	AG072A
1U Rackmount Keyboard with USB, UK	AG073A
1U Rackmount Keyboard with USB, GR	AG074A
1U Rackmount Keyboard with USB, FR	AG075A
1U Rackmount Keyboard with USB, ITL	AG076A
1U Rackmount Keyboard with USB, SP	AG077A
1U Rackmount Keyboard with USB, DEN	AG078A
1U Rackmount Keyboard with USB, NOR	AG079A
1U Rackmount Keyboard with USB, SE/FI	AG080A
1U Rackmount Keyboard with USB, SWI	AG081A
1U Rackmount Keyboard with USB, PORT	AG082A
1U Rackmount Keyboard with USB, BEL	AG083A
1U Rackmount Keyboard with USB, JPN2	AG084A
1U Rackmount Keyboard with USB, RUS	AG085A
1U Rackmount Keyboard with USB, INTL	AG086A
NOTE: For additional information regarding Rack Options, please see the following URL: http://www.hp.com/go/rackandpower.	
HP KVM Switch Options	
2x1x16 IP Console Switch with Virtual Media	AF601A
4x1x16 IP Console Switch with Virtual Media	AF602A
2x16 Server Console Switch with Virtual Media	AF600A
PS/2 Virtual Media Interface Adapter, 1 pack NOTE: Requires PS/2 and one USB port on server.	AF604A
Server console switch 0x2x8	AF616A
Server console switch 0x2x16	AF617A
PS/2 Interface Adapter, 1 pack	262588-B21
PS/2 Interface Adapter, 8 pack	262587-B21
NOTE: Cat5e cables are required to connect Interface Adapters to Console Switches. Cat5e cables can be found at the following URL: http://www.hp.com/go/kvm.	
HP 1x4 Console Switch	AF611A
PS2 Server Console Cable, 6 ft, 2 pack	AF612A
HP 1x4 KVM Console 6ft USB Cable	AF613A
NOTE: For additional information regarding KVM switches, Serial Console servers, rack mount monitors, keyboards and all related options please see the following URL: http://www.hp.com/go/kvm.	
HP Serial Console Server Options	
HP 16 Port Serial Console Server (worldwide)	AF101A
HP 48 Port Serial Console Server (worldwide)	AF102A
Serial Adapter, RJ45-DB9 DCE Female, 1 Pack	AF103A
Serial Adapter, RJ45-DB9 DCE Female, 8 Pack	AF110A



Additional Options		
	NOTE: Cat5e cables are required to connect Serial Adapters to Serial Console Servers. Additional Serial Adapters and Cat5e cables can be found at the following URL: http://www.hp.com/go/kvm.	
	NOTE: For additional information regarding KVM switches, Serial Console servers, rack mount monitors, keyboards and all related options please see the following URL: http://www.hp.com/go/kvm.	
	Rack Kits	
	HP ML370G6 Tower to Rack Conversion Kit	515031-B21
USB and SD Options	HP 1.44MB USB External Floppy Drive	DC141B
	HP USB 2-Button Optical Scroll Mouse	DC172B
	HP Standard USB Keyboard US	DT528A#ABA
	HP 4GB USB Flash Media Key Kit	580385-B21
	NOTE: Blank USB media device is supported for use with ProLiant iVirtualization. USB media must be installed in the internal slot of the ProLiant server. Learn more at http://www.hp.com/go/proliantvirtualization.	
Service and Support	HP ProLiant ML370 G6 Service & Support Offerings	
Offerings	Hardware Services On-site Service	
(HP Care Pack Services)	4-Hour On-site Service, 5-Day x 13-Hour Coverage, 3 Years, Electronic	U4528E
	4-Hour On-site Service, 7-Day x 24-Hour Coverage, 3 Years, Electronic	U4529E
	Hardware Services 6-Hour Call to Repair On-site Service	
	6-Hour Call to Repair, On-site Service, 7-Day x 24-Hour Coverage, 3 Years, Electronic	U4530E
	Installation & Start-up Services	
	Hardware Installation, Electronic	U4538E
	Installation & Start-Up of a ProLiant server and Microsoft or Linux O/S per the Customer Description and/or Data Sheet. To be delivered on a scheduled basis 8am- 5pm, M-F, excl. HP holidays, Electronic	U4539E
	Support Plus	
	Onsite HW support, 8am-9pm, M-F, 4hr response and Microsoft O/S SW Tech support offsite, onsite at HP's discretion, 8am-9pm, M-F 2hr response time excl. HP holidays, Electronic	U4540E
	Support Plus 24	
	Onsite HW support 24x7, 4hr response and Microsoft O/S SW Tech support offsite, onsite at HP's discretion, 24x7 2hr response time incl. HP holidays, Electronic	U4541E
	Onsite HW support 24x7, 4hr response and SuSE Linux SW Tech support offsite, onsite at HP's discretion, 24x7 2hr response time incl. HP holidays, Electronic	U6311E
	Onsite HW support 24x7, 4hr response and Red Hat ES Linux SW Tech support offsite, onsite at HP's discretion, 24x7 2hr response time incl. HP holidays, Electronic	U8333E
	HP ProLiant DL370 G6 Service & Support Offerings	
	Hardware Services On-site Service	
— / — ,	4-Hour On-site Service, 5-Day x 13-Hour Coverage, 3 Years, Electronic	UM752E
(hp) ———	DA - 13242 Worldwide QuickSpecs — Version 14 — 10.2.2009	Page 36

Worldwide QuickSpecs — Version 14 — 10.2.2009

Page 36

DA - 13242

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Additional Options

4-Hour On-site Service, 7-Day x 24-Hour Coverage, 3 Years, Electronic	UM753E
Hardware Services 6-Hour Call to Repair On-site Service	
6-Hour Call to Repair, On-site Service, 7-Day x 24-Hour Coverage, 3 Years, Electronic	UM754E
Installation & Start-up Services	
Hardware Installation, Electronic	UM777E
Installation & Start-Up of a ProLiant server and Microsoft or Linux O/S per the Customer Description and/or Data Sheet. To be delivered on a scheduled basis 8am- 5pm, M-F, excl. HP holidays, Electronic	UM778E
Support Plus	
Onsite HW support, 8am-9pm, M-F, 4hr response and Microsoft O/S SW Tech support offsite, onsite at HP's discretion, 8am-9pm, M-F 2hr response time excl. HP holidays, Electronic	This service level no longer being offered
Support Plus 24	
Onsite HW support 24x7, 4hr response and Microsoft O/S SW Tech support offsite, onsite at HP's discretion, 24x7 2hr response time incl. HP holidays, Electronic	UM763E
Onsite HW support 24x7, 4hr response and SuSE Linux SW Tech support offsite, onsite at HP's discretion, 24x7 2hr response time incl. HP holidays, Electronic	UM764E
Onsite HW support 24x7, 4hr response and Red Hat ES Linux SW Tech support offsite, onsite at HP's discretion, 24x7 2hr response time incl. HP holidays, Electronic	UM765E
NOTE: For more information, customer/resellers can contact: http://www.hp.com/services/carepack.	

http://www.hp.com/services/carepack.



Memory

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

HP ProLiant DL370 G6 Models HP ProLiant ML370 G6 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:
 - 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
- 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
- No mixing DIMM voltage; all DIMMs must be the same voltage

DIMM Type ->		Registered Dimms (RDIMMs)				Unbuffered with ECC DIMMs (UDIMMs)		
DIMM Rank ->		Dual Rank (2R) Quad Rank (4R		Quad Rank (4R)		Single Rank (1R)	Dual Rank (2R)	
DIMM Capacity ->	2GB	4GB	8GB	8GB	4GB	16GB	1GB	2GB
DIMM Native Speed (MHz) ->	1333	1333	1066	1333	1066	1066	1333	1333
Part Number	500656- B21	500658- B21	516423- B21	500662- B21	500660- B21	500666- B21	500668- B21	500670- B21
slots that can	BE POPULA	TED						
18 slot servers	18	18	18	18	12	12	12	12
MAXIMUM CAPACITY (GB)								
18 slot servers	36	72	144	144	48	192	12	24
Populated DIMM	POPULATED DIMM SPEED (MHz)							



Memory

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

* Supported with ROM update via ROM Based Setup Utility (RBSU).

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
- 95 Watt CPU's are required for 1333MHz DIMM speeds.
- 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)							
	CF	1U1	CF					
	slot #	population order	slot #	population order				
Chnl 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	C	<u> </u>			

Standard memory configuration (1 CPU model)

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



Memory

	CPU1		CPU2		
	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	
	ļ				
Chnl 2	4	H; empty	4	H; empty	Chnl 2
	5	E; empty	5	E; empty	
	6	B; 2GB DIMM	6	B; empty	
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 PC3-10600 or PC3-8500 RDIMMs

	CPU1		CPU2		
	slot #	population order	slot #	population order	
Chnl 1	1	G; 8GB DIMM]	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 PC3-10600 or PC3-8500 RDIMMs



Memory

	СРИ1		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	
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	
Chnl 3	7	I; 8GB DIMM	7	l; empty	Chnl 3
	8	F; 8GB DIMM	8	F; empty	

UDIMM maximum configuration (1 CPU model)

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

	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	
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

• 192GB, consisting of twelve (12) 16GB Quad-Rank PC3-8500 RDIMMs



Memory

	CPU1		CF	CPU2	
	slot #	population order	slot #	population order	
Chnl 1	1	G; empty	1	G; empty	Chnl 1
	2	D; 16GB DIMM	2	D; 16GB DIMM]
	3	A; 16GB DIMM	3	A; 16GB DIMM	
Chnl 2	4	H; empty	4	H; empty	Chnl 2
	5	E; 16GB DIMM	5	E; 16GB DIMM]
	6	B; 16GB DIMM	6	B; 16GB DIMM	
Chnl 3	7	l; empty	7	l; empty	Chnl 3
	8	F; 16GB DIMM	8	F; 16GB DIMM]
	9	C; 16GB DIMM	9	C; 16GB DIMM	

UDIMM maximum configuration (2 CPU model)

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

	CPU1		CPU2		
	slot #	population order	slot #	population order	
Chnl 1	1	G; empty]	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



Memory

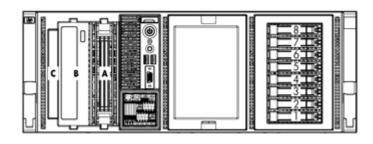
Memory

Following are memory options available from HP:

Registered DIMMs (RDIMMs)	
HP 2GB 2Rx8 PC3-10600R-9 Kit	500656-B21
HP 4GB 2Rx4 PC3-10600R-9 Kit	500658-B21
HP 4GB 4Rx8 PC3-8500R-7 LP Kit	500660-B21
HP 8GB 2Rx4 PC3-8500R-7 Kit	516423-B21
HP 8GB 2Rx4 PC3-10600R-9 Kit	500662-B21
HP 16GB 4Rx4 PC3-8500R-7 Kit	500666-B21
Unbuffered with ECC DIMMs (UDIMMs)	
HP 1GB 1Rx8 PC3-10600E-9 Kit	500668-B21
HP 2GB 2Rx8 PC3-10600E-9 Kit	500670-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: Kits described as LP include Low Power DIMMs. For more information on ProLiant Energy Efficient Features, see: www.hp.com/go/proliant-energy-efficient.	

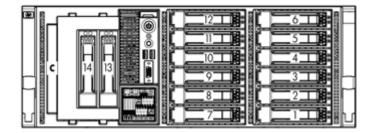


Storage





	16 15 14 12 12 10 9	
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- A Removable media bay
- B SATA DVD-ROM Drive (Standard in all BTO Models)
- C Optical Drive (blank)
- 1-8 Eight SFF SAS/SATA HDD Bays (Standard in all BTO Models)
- A Removable media bay
- B SATA DVD-ROM Drive (Standard in all BTO Models)
- C Optical Drive (blank)
- 1-8 Eight SFF SAS/SATA HDD Bays (Standard in all BTO Models)
- 1-24 Twenty-four small form factor (SFF) hot-plug drive bays to support Serial-attached SCSI (SAS) and Serial ATA (SATA) drives with optional drive cages (up to three 8 SFF drive cage can be installed)

1-14 Fourteen large form factor (LFF) hot-plug drive bays to support Serial-attached SCSI (SAS) and Serial ATA (SATA) drives with optional drive cages



Storage

Drive Support

	Quantity Supported	Position Supported	Controller
Removable Media Half-Height SATA DVD- ROM Optical Drive	Up to 2	А, В	Integrated IDE
Half-Height SATA DVD RW Optical Drive	Up to 2	А, В	Integrated IDE
HP Slim SATA DVD-ROM Optical Drive	1 NOTE: Also please use if the 3 drive cage is populated	С	Integrated IDE
HP Slim SATA DVD RW Optical Drive	1 NOTE: Also please use if the 3 drive cage is populated	С	Integrated IDE

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 Enterprise (ENT) Drives

	Quantity Supported	Position Supported	Controller
300GB 6G SAS 10K DP 300GB 3G SAS 10K DP 146GB 6G SAS 15K DP 146GB 3G SAS 15K DP 146GB 6G SAS 10K DP 146GB 3G SAS 10K DP 72GB 6G SAS 15K DP 72GB 3G SAS 15K DP 72GB 3G SAS 10K DP	Up to 24	1-8 1-24	HP Smart Array P800/512 BBWC Controller HP Smart Array P212/Zero Memory Controller HP Smart Array P212/256 MB Controller HP Smart Array P410/256 MB Controller HP Smart Array P410/512 MB BBWC Controller HP Smart Array P411/256 MB Controller HP Smart Array P411/512 MB BBWC Controller

SAS Hot Plug 3.5" Enterprise (ENT) Drives

	Quantity	Position	
	Supported	Supported	Controller
600GB 6G SAS 15K DP	Up to 14	1-14	HP Smart Array P800/512 BBWC Controller
450GB 6G SAS 15K DP			HP Smart Array P212/Zero Memory Controller
450GB 3G SAS 15K DP			HP Smart Array P212/256 MB Controller
300GB 6G SAS 15K DP			HP Smart Array P410/256 MB Controller



Storage

300GB 3G SAS 15K DP 146GB 3G SAS 15K DP HP Smart Array P410/512 MB BBWC Controller HP Smart Array P411/256 MB Controller HP Smart Array P411/512 MB BBWC Controller

SAS Hot Plug SFF Midline	SAS Hot Plug SFF Midline (MDL) Drives				
	Quantity Supported	Position Supported	Controller		
500GB 6G SAS 7.2K DP	Up to 14	1-14	HP Smart Array P800/512 BBWC Controller HP Smart Array P212/Zero Memory Controller HP Smart Array P212/256 MB Controller HP Smart Array P410/256 MB Controller HP Smart Array P410/512 MB BBWC Controller HP Smart Array P411/256 MB Controller HP Smart Array P411/512 MB BBWC Controller		

SAS Hot Plug 3.5" Midline (MDL) Drives

	Quantity Supported	Position Supported	Controller
1TB 3G SAS 7.2K DP 750GB 3G SAS 7.2K DP	Up to 14	1-14	HP Smart Array P800/512 BBWC Controller HP Smart Array P212/Zero Memory Controller
/ 3000 300 3/13 / .210 DI			HP Smart Array P212/256 MB Controller
			HP Smart Array P410/256 MB Controller
			HP Smart Array P410/512 MB BBWC Controller
			HP Smart Array P411/256 MB Controller
			HP Smart Array P411/512 MB BBWC Controller

SATA Hot Plug SFF Midline (MDL) Drives

	Quantity Supported	Position Supported	Controller
500GB 3G SATA 7.2K	Up to 24	1-8	HP Smart Array P800/512 BBWC Controller
160GB 3G SATA 7.2K	·	1-24	HP Smart Array P212/Zero Memory Controller
			HP Smart Array P212/256 MB Controller
			HP Smart Array P410/256 MB Controller
			HP Smart Array P410/512 MB BBWC Controller
			HP Smart Array P411/256 MB Controller
			HP Smart Array P411/512 MB BBWC Controller

SATA Hot Plug 3.5" Midline (MDL) Drives

	Quantity	Position	
	Supported	Supported	Controller
1TB 3G SATA 7.2K	Up to 14	1-14	HP Smart Array P800/512 BBWC Controller
750GB 3G SATA 7.2K			HP Smart Array P212/Zero Memory Controller
500GB 3G SATA 7.2K			HP Smart Array P212/256 MB Controller
250GB 3G SATA 7.2K			HP Smart Array P410/256 MB Controller
			HP Smart Array P410/512 MB BBWC Controller



Storage

HP Smart Array P411/256 MB Controller HP Smart Array P411/512 MB BBWC Controller

SATA Hot Plug SFF Entry	(ETY) Drives Quantity Supported	Position Supported	Controller
250GB 3G SATA 5.4K 120GB 1.5G SATA 5.4K	Up to 24	1-8 1-24	HP Smart Array P800/512 BBWC Controller HP Smart Array P212/Zero Memory Controller HP Smart Array P212/256 MB Controller HP Smart Array P410/256 MB Controller HP Smart Array P410/512 MB BBWC Controller HP Smart Array P411/256 MB Controller HP Smart Array P411/512 MB BBWC Controller
SATA Hot Plug 3.5" Entry	/ (ETY) Drives		
	Quantity Supported	Position Supported	Controller
160GB 3G SATA 7.2K	Up to 14	1-14	HP Smart Array P800/512 BBWC Controller HP Smart Array P212/Zero Memory Controller HP Smart Array P212/256 MB Controller HP Smart Array P410/256 MB Controller HP Smart Array P410/512 MB BBWC Controller HP Smart Array P411/256 MB Controller HP Smart Array P411/512 MB BBWC Controller
SATA Hot Plug Midline (N	ADL) Solid State	e Drives	
60GB 3.0G SATA SSD 120GB 3.0G SATA SSD	Quantity Supported Up to 24	Position Supported 1-8 1-24	Controller HP Smart Array P800/512 BBWC Controller HP Smart Array P212/Zero Memory Controller
			HP Smart Array P212/256 MB Controller HP Smart Array P410/256 MB Controller HP Smart Array P410/512 MB BBWC Controller HP Smart Array P411/256 MB Controller HP Smart Array P411/512 MB BBWC Controller

SATA Hot Plug 3.5" Midline (MDL) Solid State Drives

	Quantity Supported	Position Supported	Controller
60GB 3.0G SATA SSD 120GB 3.0G SATA SSD	Up to 14	1-14	HP Smart Array P800/512 BBWC Controller HP Smart Array P212/Zero Memory Controller HP Smart Array P212/256 MB Controller HP Smart Array P410/256 MB Controller HP Smart Array P410/512 MB BBWC Controller HP Smart Array P411/256 MB Controller



Storage

HP Smart Array P411/512 MB BBWC Controller

External Storage			
	Quantity Supported	Position Supported	Host Controller or Adapter
50 Modular Smart Array	Up to 4	External	HP Smart Array P800/512 BBWC Controller
60 Modular Smart Array	Up to 4	External	HP Smart Array P212/Zero Memory Controller HP Smart Array P212/256 MB Controller
	Up to 8		HP Smart Array P411/256 MB Controller HP Smart Array P411/512 MB BBWC Controller HP Smart Array P800/512 BBWC Controller
70 Modular Smart Array	Up to 2	External	HP Smart Array P212/Zero Memory Controller HP Smart Array P212/256 MB Controller
	Up to 4		HP Smart Array P800/512 BBWC Controller HP Smart Array P411/256 MB Controller HP Smart Array P411/512 MB BBWC Controller

Tape and Disk-Based Backup

NOTE: For a complete listing of compatible tape and disk-based backup offerings, please visit: www.hp.com/go/connect.

	Position Supported	Controller	Part Number
Internal USB Tape Drives DAT 40 USB DAT 72 USB DAT 160 USB	A	USB 2.0 Port	N/A
USB Tape Drives, Externa DAT 40 USB DAT 72 USB DAT 160 USB 1U Rack-Mount Kit	l External	USB 2.0 Port	N/A
SAS Tape Drives, Internal DAT 160 SAS LTO-2 Ultrium 448 SAS LTO-3 Ultrium 920 SAS LTO-4 Ultrium 1760 SAS	A	HP Smart Array P212/Zero Memory Controller	462828-B21
SAS Tape Drives, Externa DAT 160 SAS LTO-2 Ultrium 448 SAS LTO-3 Ultrium 920 SAS LTO-4 Ultrium 1760 SAS LTO-4 Ultrium 1840 SAS 1U Rack-Mount	l External	HP Smart Array P212/Zero Memory Controller	462828-B21



Storage

3U Rack-Mount

SAS Tape Automation, External 1/8 G2 Autoloader MSL2024 MSL4048 MSL8096	External	HP Smart Array P212/Zero Memory Controller	462828-B21
Fibre Tape Automation, External MSL2024 MSL4048 MSL8096 MSL6000	External	Please consult the EBS connectivity matrix at: http://www.hp.com/go/ebs for detailed connectivity information.	N/A
HP StorageWorks RDX Removable Disk Backup System, Internal RDX160 RDX320 RDX500	A	USB 2.0 Port	N/A
HP StorageWorks RDX Removable Disk Backup System, External RDX160 RDX320 RDX500	External	USB 2.0 Port	N/A
HP StorageWorks D2D Backup Systems D2D120 D2D130 D2D2500i D2D4000i	External	Embedded Network Controller	N/A



Power Specifications

HP 460W Power Supply							
Part Number - AC 460W PSU	503296-B21						
Input Voltage Range (Vrms)	100 to 240						
Frequency Range (Nominal) (H	5)0/60						
Nominal Input Voltage (Vrms)	100	120	208	200	220	230	240
Maximum Rated Output Wattage	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
Max Rated Input Wattage Rating (Watts)	526	520	505	505	503	503	503
Max. Rated VA (Volt-Amp)	548	542	527	527	524	524	524
Efficiency (%) at Max. Rated Outpu Wattage	87.5	88.5	91	91	91.5	91.5	91.5
Power Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Leakage Current (mA)	0.42	0.50	0.83	0.87	0.92	0.96	1.00
Max. Inrush Current (A peak)	30	30	30	30	30	30	30
Max. Inrush Current duration (mS)	20	20	20	20	20	20	20
Maximum British Thermal Unit Rating (BTU-Hr)	1794	1773	1725	1725	1715	1715	1715

HP 750W Power Supply							
Part Number - AC 750W PSU	512327-B21						
	100 to 240						
Frequency Range (Nominal) (H	£)0/60						
Nominal Input Voltage (Vrms)	100	120	208	200	220	230	240
Maximum Rated Output Wattage	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
Max Rated Input Wattage Rating (Watts)	857	847	824	825	820	820	820
Max. Rated VA (Volt-Amp)	894	884	859	859	854	854	854
Efficiency (%) at Max. Rated Outpu Wattage	87.5	88.5	91	91	91.5	91.5	91.5
Power Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Leakage Current (mA)	0.42	0.50	0.83	0.87	0.92	0.96	1.00
Max. Inrush Current (A peak)	30	30	30	30	30	30	30
Max. Inrush Current duration (mS)	20	20	20	20	20	20	20
Maximum British Thermal Unit Rating (BTU-Hr)	2925	2892	2812	2812	2797	2797	2797



Power Specifications

HP 1200W Power Supply							
Part Number - AC	500172-B21						
Operational Input Voltage Ran	de0 to 240						
(Vrms)							
Frequency Range (Nominal) (H	නු0/60						
Nominal Input Voltage (Vrms)	100	120	208	200	220	230	240
Maximum Rated Output Wattage	800	900	1200	1200	1200	1200	1200
Nominal Input Current (A rms)	9.7	9.0	7.0	6.8	6.4	9.1	5.9
Max Rated Input Wattage Rating	930	1034	1348	1348	1348	1348	1348
(Watts)							
Max. Rated VA (Volt-Amp)	970	1079	1406	1406	1406	1406	1406
Efficiency (%) at Max. Rated Outpu	86	87	89	89	89	89	89
Wattage							
Power Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Leakage Current (mA)	0.42	0.50	0.83	0.87	0.92	0.96	1.00
Max. Inrush Current (A peak)	30	30	30	30	30	30	30
Max. Inrush Current duration (mS)	20	20	20	20	20	20	20
Maximum British Thermal Unit	3174	3530	4600	4600	4600	4600	4600
Rating (BTU-Hr)							

To review typical system power ratings use the Active Answers 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

To drill down to calculators:

- Click on: "ProLiant Servers"

- Click on the Server of interest. Example: DL370 G6 or ML370 G6

- Click on: "Power Calculator" link. (You may need to scroll down to see it)



Technical Specifications

System Unit	Tower Dimensions (H x W x D) (with bezel)	18.52 x 9.75 x 29.12 in (47.04 x 24.77 x 7396 cm)				
	Rack Dimensions (H x W x D) (with bezel)	6.88 x 19.03 x 27.53 in (17.48 x 48.34 x 69.93 cm)				
	Tower Weight (approximate)	Maximum (two hard drives, power supply, and processor installed)	103.06 lbs (46.75 kg)			
		Minimum (one hard drive, power supply, and processor installed)	66,14 lbs (30.00 kg)			
	Rack Weight (approximate)	Maximum (two hard drives, power supply, and processor installed)	103.06 lbs (46,75 kg)			
		Minimum (one hard drive, power supply, and processor installed)	55.12 lbs (25.00 kg)			
	Input Requirements (per power supply)	Rated Line Voltage	90 - 132 VAC, 180 - 264 VAC			
		Rated Input Current	7.5A (at 100 VAC), 3.8A (at 200 VAC)			
		Rated Input Frequency	47 to 63 Hz			
		Rated Input Power	980W (at 100 VAC) 1035W (at 120 VAC) 1170W (at 240 VAC)			
	BTU Rating	Maximum	460W - 1773 BTU / hr (at 120 VAC), 1715 (at 240 VAC) 750W - 2892 BTU / hr (at 120 VAC), 2797 (at 240 VAC) 1200W - 3530 BTU / hr (at 120 VAC), 4600 (at 240 VAC)			
	Power Specifications	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				
		- Click on the system of interest. Example: DL370 G6 or ML370 G6 - Follow the instructions of the next screens.				
	Power Supply Output	Rated Steady-State Power 460 W (at 100 VAC)				
	(per power supply)	Maximum Peak Power	460 W (at 200 VAC) 460 W (at 100 VAC) 460 W (at 200 VAC) NOTE: See Power Supply Specifications tables for complete details on 460W PSU and optional			



HP ProLiant ML370 Generation 6

Technical Specifications

		750W and 1200W Power Supply Options.		
System Inlet Temper	ratu@perating	 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).		
Relati∨e Humidity (non-condensing)	Operating	10 to 90% relative humidity (Rh), 28°C (82.4°F) maximum wet bulb temperature, non-condensing.		
	Non-operating	5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non- condensing.		
Altitude	Operating	3048 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).		
	Non-operating	9144 m (30,000 ft). Maximum allowable altitude change rate is 457 m/min (1500 ft/min).		
Acoustic Noise	declared average byst (LpAm) when the produ emissions were measu	A-Weighted sound power levels (LWAd) and tander position A-Weighted sound pressure levels uct is operating in a 23°C ambient environment. Noise red in accordance with ISO 7779 (ECMA 74) and the with ISO 9296 (ECMA 109).		
	L WAd	5.6 B for 1P Non-Redundant; 5.5 B for 2P Redundant		
	L pAm	39 dB for 1P Non-Redundant; 39 dB for 2P Redundant		
	Operating			
	L WAd	5.6 B for 1P Non-Redundant; 5.5 B for 2P Redundant		
	L pAm	39 dB for 1P Non-Redundant; 39 dB for 2P Redundant		
		und levels apply to standard shipping configurations. 7 result in increased sound levels.		
Emissions Classificat	ion FCC Rating	Class B		



Technical Specifica	itions						
	(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				
		NOTE: Product conformance to cited product specifications is based on sample (type) testing, evaluation, or assessment. This product or family of products is eligible to bear the appropriate compliance logos and statements.					
Smart Array P410i Controller	Dimensions (not including bracket)	Low Profile PCIe Form Factor 7.5 in x 9.5 in x 2.25 in (19.05 cm x 24.13 cm x 5.72 cm)					
	Disk Drive and Enclosi	Jr∉Gb∕s SAS (Serial Attac	ched SCSI)				
		nsfer rate3Gb/s SATA (Serial ATA)					
	SAS Connectors	2 internal (Mini-SAS) x8 wide port connectors					
	Cache Memory Speed	ed DDR2-800MHz with 40 or 72-bit wide bus provides up to 4.2 GB/s maximum bandwidth.					
	Server Interface	x8 5G PCle 2.0 provide	es 4GB/s maximum bandwidth				
	SAS Speed	x8 3G SAS provides 2.4	1GB/s maximum bandwidth				
	Cache Memory	40-bit 256MB ECC protected cache (72-bit 512MB BBWC module upgrades available); transportable with battery-backed upgrade					
	Logical Drives SupportedIp to 64 logical drives						
	Maximum Logical Drive Greater than 2TB Capacity						
	Host Memory Addressing4-bit, supporting greater than 4GB server memory space						
	RAID Support		Data Guarding) 256 MB cache, battery kit, and Smart Array Key upgrade is required to enable RAID 6, 6+0				
		RAID 5, 5+0 (Distributed NOTE: The 256MB up Smart Array P410i.	Data Guarding) grade is required to enable RAID 5 support on the				
		RAID 1+0 (Striping & Mir	roring)				
	RAID O (Striping)						
	Upgradeable Firmware Upgradeable Firmware with recovery ROM feature						



Technical Specifications

NC375i Integrated Quadetwork Interface		10Base-T/100Base-TX/1000Base-TX					
Port Multifunction Gigakit _{ompati} bility Server Adapter		IEEE 802.3 10Base-T					
		IEEE 802.3ab 1000Base-T					
			IEEE 802.3u 100Base-TX				
			IEEE 802.3ad 1000Base-TX				
		IEEE 802.1p 100Base-TX					
		IEEE 802.1q 100Base-TX	N N				
		PCI Express, four lanes (x4	·)				
	Network Transfer Rate		10 Mb/s				
			20 Mb/s				
		100Base-TX (Half-Duplex)	100 Mb/s				
			200 Mb/s				
Connector Cable Support		1 000Base-TX (Half and Full-Duplex)	2000 Mb/s				
		RJ-45					
		10Base-T	Categories 3, 4 or 5 UTP up to 328 ft (100 m)				
		100Base-TX	Category 5 or higher UTP; up to 328 ft (100 m)				
		1000Base-TX	Category 5 or higher UTP; up to 328 ft (100 m)				

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customers who integrate and re-sell HP equipment.

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

