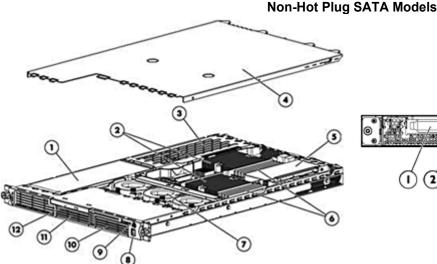
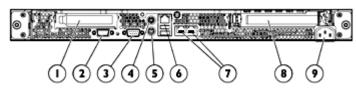
### Overview





#### Front View:

- 1. Power Supply
- 2. 2 AMD Opteron 2000 series processors
- 3. Full-length PCI-Express or HTX slot
- 4. Access panel
- 5. Low-profile PCI-Express or PCI-X slot
- 6. Memory banks
- 7. System Fans
- 8. Front-panel USB ports
- 9. Power switch/system status LEDs
- 10. 3.5" Hot-plug SAS/SATA or 3.5" Non-hot plug SATA drive
- 11. 3.5" Hot-plug SAS/SATA or 3.5" Non-hot plug SATA drive
- 12. Optional CD- or DVD/CDRW drive

### What's New

- Processor:
  - O Support for AMD Opteron™ processor Model 2220 (2.8 GHz (95W)
- Storage Controllers:
  - O HP Smart Array E500/256MB Controller

#### **Rear View:**

- 1. Low Profile Riser Board Assembly Slot Cover
- 2. Video Port
- 3. Serial Port
- 4. PS/2 Mouse Port
- 5. PS/2 Keyboard Port
- 6. Lights Out 100 10/100 Mbps LAN Port for IPMI Management (RJ45) (Two)
- 7. GbE LAN Port for NIC 1 and 2 (RJ45) (Two)
- 8. Full-Sized Riser Board Assembly Slot Cover
- 9. Power Supply



#### Overview

### At A Glance

- Processors:
  - O Supports up to two AMD Opteron 2000 series processors
  - Supports up to dual-core 2.8GHz, 1MB cache processors
  - Supports DirectConnect Architecture
- Memory:
  - 0 8 DIMM slots supporting up to 32GB REG PC2-5300 DDR2-667 MHz memory with Advanced ECC
- Internal Drive Support:
  - Supports up to two:
    - Hot Plug Serial Attached SCSI (SAS) 3.5"/Serial ATA (SATA) hard drives, or;
    - Non-Hot Plug Serial ATA (SATA) 3.5"hard drives
  - Internal storage capacity of up to 1.5TB (2 x 750GB hot plug 3.5" SATA hard drives), or 600GB (2 x 300GB hot plug 3.5" SAS hard drives)
- Network Controller:
  - O NC326i PCIe Dual Port Gigabit Server Adapter
- Storage Controllers:
  - O HP Embedded SATA Controller on Non-Hot Plug SATA Models
  - O HP Smart Array E500/256MB Controller
  - O HP Smart Array E200 Controller with 64 MB cache, optional
  - O HP 8 Internal Port SAS HBA with RAID 0,1 on Hot Plug SATA/SAS Models
  - O HP SC44Ge Host Bus Adapter
  - O HP SC11Xe Host Bus Adapter
- Expansion Slots:
  - Standard PCI-Express assembly includes:
    - Slot 1: full-length/full height PCI-Express x16
    - Slot 2: half-length/low-profile PCI-Express x4 (x8 connector)
  - O Optional PCI-X assembly includes:
    - Slot 2: half-length/low-profile PCI-X 133 (note: PCI-X slots are 64 bits; 133 MHz capable)
  - O Optional HTX assembly includes: Slot 1: full-length/full height HTX
- Management:
  - O IPMI 2.0 support
  - O HP ProLiant Lights Out 100i Remote Management support
  - ROM Setup Utility
- USB Ports:
  - o Four USB ports (two front, two rear)
- Optical Drive:
  - O Support for one (optional): CD-ROM, DVD-ROM, DVD RW, DVD/CD RW
- Power Supply:
  - o 650W Power Supply (Non-Hot Plug, Autoswitching)
- Form Factor:
  - O 1U rack models
- Deployment/Serviceability:
  - o Tool-less access to all system components for easy in rack serviceability
- Warranty:
  - Protected by HP Services, including a one-year, limited warranty, Next Business Day 1, year on-site limited Global warranty - Certain restrictions and exclusions apply



IConfiguration Information

### Standard Features

Network Controller	NC326i PCIe Dual Port	Gigabit Server Ada	apter	
	Maximum	32 GB	(8 x 4 GB)	
· •		4 GB	(2 x 2 GB)	
depending on Model	Standard (Depending on model)	1 GB 2 GB	(2 x 512 MB) (2 x 1 GB)	
<b>Memory</b> One of the following	Type		DIMMs (DDR2-667)	
Memory Protection	Memory mirroring with Advanced ECC capabilities			
Cache Memory	1MB Level 2 cache per core			
Chipset	ServerWorks HT2100 and HT1000			
Upgradeability	Upgradeable to two processors			
	AMD Opteron processo	r Model 2210 (1.8	GHz (95W)	
	AMD Opteron processo	r Model 2210 HE (	1.8 GHz (68W)	
	AMD Opteron processo			
	AMD Opteron processo	•		
depending on Model	AMD Opteron processo	•		
Processor One of the following	AMD Opteron™ processor Model 2220 (2.8 GHz (95W) AMD Opteron processor Model 2218 (2.6 GHz (95W)			
Draaaaar	() () ntoron M proposi	or Model 2220 (2	$\circ C \Box = (0 E M)$	

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Expansion Slots	Slot Number	Bus Speed	Bus Number*	Device Number**	Hot Plug (Y/N)	PCI Voltage	Notes
	1	x16 PCI-Express	3	0	No	3.3 volts	Full length, full height
	1	HTX	9	1	No	3.3 volts	Full length, full height
	2	x4 PCI-Express	6	0	No	3.3 volts	Low Profile
	2	4-bit, 133MHz PCI-X	2	1	No	3.3 volts	Low Profile

**\*NOTE:** Default bus assignment. Inserting cards with PCI bridges may alter the actual bus assignment number.

\*\***NOTE:** Slots are enumerated differently based on OS. MS OS's enumerate from lowest to highest Device ID by bus (starting with the lowest bus).



Standard Features					
Storage Controller	Non-Hot Plug SATA Models	HP Embeddeo	SATA Controller		
	Hot Plug SATA/SAS Models	HP 8 Internal	Port SAS HBA with RAID 0,1		
	<b>NOTE:</b> A diskette drive is system installation from		all storage controller drivers during a Windows operating		
Storage	Optical Drives:				
	DVD-ROM	8x IDE (ATAP	I) DVD-ROM drive, slim (optional)		
	DVD/CD RW	24x IDE (ATA	PI) CD-ROM drive (optional)		
	Diskette Drives	Via USB only			
	Drive Bays:				
	Non-Hot Plug SATA	Up to 2 non-ho	ot plug SATA 3.5" drives		
	Hot-Plug SATA/SAS	Up to 2 hot plu	ug SATA /SAS 3.5" drives		
Maximum Internal	Non-Hot Plug SATA	1TB	2 x 500GB		
Storage	Hot Plug SATA	1.5TB	2 x 750GB		
	Hot Plug SAS	600GB	2 x 300GB		
	Non-Hot Plug SAS	600GB	2 x 300GB		
Interfaces	Parallel	None			
	Network RJ- 45(Ethernet)	NC326i PCIe Dual Port Gigabit Server Adapter			
	Serial	1			
	Pointing Device (Mouse)	1			
	Graphics	1			
	Keyboard	1			
	USB	regarding USE	see the following URL for additional information		
Graphics	<ul> <li>Integrated Server Engines Graphics with 2.25MB embedded DRAM</li> <li>Supported Resolutions:         <ul> <li>0 800 x 600 at 24bpp (bits per pixel)</li> <li>0 1024 x 768 at 16bpp (bits per pixel)</li> </ul> </li> </ul>				
Form Factor	Rack Mount (1U), (1.75 i	n/4.45 cm)			



Standard Features		
ProLiant Essentials Foundation Pack Software	Optional ProLiant Essentials Value Packs	<ul> <li>Optional software offerings that selectively extend the functionality of an Adaptive Infrastructure to address specific business problems and needs:</li> <li>Intelligent Networking Pack - detects and analyzes network bottlenecks or broken network linkages and steers traffic to the optimum route based on network conditions, plus it provides an extra layer of protection. The virus throttle feature of the solution slows the propagation of fast spreading virus.</li> <li>Vulnerability and Patch Management Pack - identifies and remediates software security vulnerabilities due to missing patches as well operating system configurations that can be exploited by viruses, worms, and other blended threats.</li> <li>NOTE: Flexible and volume quantity license kits are available for ProLiant Essentials Value Packs. Refer to http://www.hp.com/servers/proliantessentials</li> <li>or the various ProLiant Essentials Value Pack product QuickSpecs for more information.</li> <li>NOTE: For more information regarding ProLiant Essentials Software, please see the following URL: http://www.hp.com/servers/proliantessentials.</li> </ul>
Industry Standard Compliance	ACPI V2.0 Compliant PCI 2.2 Compliant PXE Support WOL Support Microsoft® Logo certifica IPMI 2.0 Compliant	itions
Manageability	HP ProLiant Lights Out 1	00i Remote Management standard
Security	Power-on password Setup password	
UPS and PDU Power Cord Matrix	specifications for UPS ar	/products/servers/ProLiantstorage/power-
Power Supply	650 Watts, auto-switchin	g, PFC (Power Factor Correcting)
System Fans	3 system fans ship stand	ard; Non-hot plug, Non-redundant



Standard Features	
OS Support	Microsoft Windows 2003 and Microsoft Windows 2003/R2 Standard Edition (32-bit) Microsoft Windows 2003 and Microsoft Windows 2003/R2 Enterprise Edition (32-bit) Microsoft Windows 2003 and Microsoft Windows 2003/R2 Web Edition (32-bit) Microsoft Windows 2003 and Microsoft Windows 2003/R2 for Extended Systems Standard Edition (64-bit) Microsoft Windows 2003 and Microsoft Windows 2003/R2 for Extended Systems Enterprise Edition (64-bit) Red Hat Enterprise Linux SUSE Linux Enterprise Server
	NOTE: For an up-to-date listing of the latest OS support matrix, please see: http://www.hp.com/go/supportos NOTE: For an up-to-date listing of the latest drivers available for the HP ProLiant DL145 G3, please see: http://h18023.www1.hp.com/support/files/server/us/index.html. NOTE: For more complete and up-to-date information on how to buy server operating systems from HP please visit the OS product site at: http://h18004.www1.hp.com/products/servers/software/OEM.html NOTE: Drivers may also found on the base media for some Linux OS's. When configuring your server, please consult your base media driver base, or visit HP.com at: http://h18023.www1.hp.com/support/files/server/us/index.html NOTE: For more Linux OS support & certification information, please visit our the ProLiant & Bladesystem Server Linux matrix http://h18004.www1.hp.com/products/servers/linux/hpLinuxcert.html
Rack Airflow Requirements	<ul> <li>Rack 10000 series Cabinets</li> <li>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.</li> <li>CAUTION: If a third-party rack is used, observe the following additional requirements to ensure adequate airflow and to prevent damage to the equipment:</li> <li>Front and rear doors: If your 42U server rack includes closing front and rear doors, you must allow 5,350 sq cm (830 square inches) of hole evenly distributed from top to bottom to permit adequate airflow (equivalent to the required 64 percent open area for ventilation).</li> <li>Side: The clearance between the installed rack component and the side panels of the rack must be a minimum of 7 cm (2.75 inches)</li> <li>CAUTION: Always use blanking panels to fill all remaining empty front panel U-spaces in the</li> </ul>

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: http://h18000.www1.hp.com/products/servers/proliantDL145/index.html



Standard Features	
Telco Rack Support	Telco Rack Kit: Support for all 2-post Telco racks requires the use of the standard rack kit and an additional option kit from Rack Solutions. http://www.racksolutions.com/hp
HP Factory Express Capability	HP Factory Express offers configuration, customization, integration and deployment services for HP servers and storage products. Customers can choose how their factory solutions are built, tested, integrated, shipped and deployed.
	Factory Express offers service packages for simple configuration, racking, installation, complex configuration and design services as well as individual factory services, such as image loading, asset tagging, and custom packaging. HP products supported through Factory Express include a wide array of servers and storage: HP Integrity, HP ProLiant, HP ProLiant Server Blades, HP BladeSystem, HP 9000 servers as well as the MSA1000, 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 Configurator	The HP eCo-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.
Service and Support	This product is covered by a global limited warranty and supported by HP Services and a worldwide network of resellers and service providers. Hardware diagnostic support and repair is available for one year from date of purchase. Support for software and initial setup is available for 90 days from date of purchase. Additional support may be covered under the warranty or available for an additional fee. Enhancements to warranty services are available through HP Care Pack services or customized service agreements.
	<b>NOTE:</b> Server Warranty includes 1 year Parts, 1 year Labor, 1-year on-site support. Additional information regarding worldwide limited warranty and technical support is available at: http://h18004.www1.hp.com/products/servers/platforms/warranty/index.html
	HP Care Pack services include coverage for the HP branded hardware options qualified for the server, purchased at the same time or afterward, internal to the enclosure, as well as 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, 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.
	HP services provide continuous care and support expertise with committed response designed to meet your IT and business needs.
	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 business. Whether an SMB or large global corporation HP



### Standard Features

has a ProLiant server support offer to help you speedily deploy and maximize system uptime.

Enhanced Care - Minimum recommended service support offer designed to ensure customers have access to expert assistance, whenever they need it.

• Next Business Day on site coverage, 3 Years

Continuance Care - Recommended service, delivering cost-effective support options designed to extend HP Services committed response and guaranteed fix times, designed to speed problem identification and resolution.

• 4-Hour On-site Service, 5-Day x 13-Hour Coverage, 3 Years

Total Care - Highest HP Support service level recommend to help increase IT performance and availability with comprehensive, integrated hardware and software services

• 4-Hour On-site Service, 7-Day x 24-Hour Coverage, 3 Years

Deployment Services - HP Installation and Start Up services designed to take time, risk, and worry out of the deployment of ProLiant servers - and free customers IT support staff to focus on what they do best, their business.

• Installation of a ProLiant server as per Data Sheet. To be delivered on a scheduled basis 8am-5pm, M-F, excl. HP holidays

For a complete listing of service offerings and information visit: 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 the DL145 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

<b>HPC Interconnects</b>	
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InfiniBand Gigabit Ethernet Myrinet XP PCI-X and PCI-Express adapters Use embedded ports PCI-X Rev D, Rev E and Rev F adapters



Models

### Non Hot Plug Serial ATA (SATA) Models

HP DL145G3 2218 2.6 GHz 2GB (1P) 411596-xx1	Processor(s) One of the following depending on model	<ul> <li>(1) AMD Opteron processor Model 2218 (2.6 GHz (95W)</li> <li>(1) AMD Opteron processor Model 2214 HE (2.2 GHz (68W)</li> <li>(1) AMD Opteron processor Model 2210 HE (1.8 GHz (68W)</li> </ul>
HP DL145G3 2214 HE	Cache Memory	1MB Level 2 cache per core
<b>2.2 GHz 2GB (1P)</b> 411593-xx1 <b>HP DL145G3 2210 HE</b>	Memory One of the following depending on model	1 GB (2 x 512 MB) Registered PC2-5300 DDR2 DIMMs (667MHz) with Advanced ECC capabilities 2GB (2 x 1GB) Registered PC2-5300 DDR2 DIMMs (667MHz) with Advanced ECC capabilities
1.8 GHz 1GB (1P)	Network Controller	NC326i PCIe Dual Port Gigabit Server Adapter
411592-xx1	Storage Controller	HP Embedded SATA Controller
	Hard Drive	80GB NHP SATA HDD
	Internal Storage	1TB maximum (2 x 500GB Non-Hot plug 3.5" SATA hard drives)
	Optical Drive	Optional CD/DVD-ROM, DVD/CD RW
	Form Factor	Rack Mount (1U)

### Hot Plug Serial ATA (SATA)/Serial Attached SCSI (SAS) Models

HP DL145G3 2220 2.8 GHz 4GB (1P) 440719-xx1	<b>Processor(s)</b> One of the following depending on model	<ul> <li>(1) AMD Opteron<sup>™</sup> processor Model 2220 (2.8 GHz (95W)</li> <li>(1) AMD Opteron processor Model 2218 (2.6 GHz (95W)</li> <li>(1) AMD Opteron processor Model 2214 HE (2.2 GHz (68W)</li> <li>1MB Level 2 cache per core</li> </ul>
HP DL145G3 2218 2.6	Cache Memory	1MB Level 2 cache per core
<b>GHz 4GB (1P)</b> 411599-xx1	Memory One of the following	2 GB (2 x 1GB) PC2-5300 DDR2 DIMMs (667MHz) with Advanced ECC capabilities
HP DL145G3 2214 HE 2.2 GHz 2GB (1P)	depending on model	4 GB (2 x 2GB) PC2-5300 DDR2 DIMMs (667MHz) with Advanced ECC capabilities
411597-xx1	Network Controller	NC326i PCIe Dual Port Gigabit Server Adapter
	Storage Controller	HP 8 Internal Port SAS HBA with RAID
	Hard Drive	None ship standard (up to 2 Hot Plug SATA or SAS drives supported)
	Internal Storage	1.5TB max. (2 x 750GB Hot Plug 3.5" SATA hard drives) or 600GB (2 x 300GB Hot Plug 3.5" SAS hard drives)
	Optical Drive	Optional CD/DVD-ROM, DVD/CD RW
	Form Factor	Rack Mount (1U)
	Availability	Hot Plug Hard Drives
Country Code Key	xx = 00	U.S.
	xx = 20	Brazil
	xx = 29	Japan
	xx = 37	APD
	xx = 42	Euro
	xx = AA	CN



Configuration Information - Factory Integrated Models (North America only)

NOTE: HP does not allow Configure-to-order serve NOTE: This product offe NOTE: FIO indicates that NOTE: This section lists only valid configurations	Order requirements within EMEA region, please consult local Sales Contact. ow factory integration of options into standard models listed above. ers must start with a CTO Chassis. ering does not support HP Factory Express Server Configuration Level 1. at this option is a Factory Installable Option. as some of the steps required to configure a Factory Integrated Model. To ensure are ordered, HP recommends the use of an HP approved configurator. Contact intative for additional information.	
	Non-Hot Plug Model	
	HP ProLiant DL145 G3 Non- Hot Plug SATA Rack Chassis (North America)	411588-B21
	Factory Integrated Model ships with:	411300-021
	NC326i PCIe Dual Port Gigabit Server Adapter	
	Two available PCI-Express slots, including one full-length/full height and one low-profile/half height slot	
	HP Embedded SATA Controller	
	650 Watt Power Supply	
	3 Non-Hot Plug Blowers	
	Rack (1U), (1.75 in / 4.45 cm)	
	Hot Plug Model	
	HP ProLiant DL145 G3 Hot Plug SATA/SAS Rack Chassis (North America)	411590-B21
	Factory Integrated Model ships with:	
	NC326i PCIe Dual Port Gigabit Server Adapter	
	One available PCI-Express slot, (full-length/full height), the low-profile/half height slot houses the SATA/SAS storage controller	
	One HP 8 Internal Port SAS Host Bus Adapter with RAID	
	One HP SATA/SAS Host Cable Kit	
	One Hot Plug Backplane Option Kit	
	650 Watt Power Supply	
	3 Non-Hot Plug Blowers	
	Rack (1U), (1.75 in / 4.45 cm)	



Configuration Information - Factory Integrated Models (North America only)

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

otherwise not	ed)				
Base Processors	AMD Opteron <sup>™</sup> processor Model 2220 (2.8 GHz (96W) <b>NOTE:</b> If 2 processors are desired, select one 440721-L21 and one 440721- B21.	440721-L21			
	AMD Opteron processor Model 2218 - 2.6 GHz (95W) <b>NOTE:</b> If 2 processors are desired, select one 411606-L21 and one 411606- B21.	411606-L21			
	AMD Opteron processor Model 2216 - 2.4 GHz (95W) <b>NOTE:</b> If 2 processors are desired, select one 435014-L21 and one 435014- B21.	435014-L21			
	AMD Opteron processor Model 2216 HE - 2.4 GHz (68W) <b>NOTE:</b> If 2 processors are desired, select one 411616-L21 and one 411616- B21.	411616-L21			
	AMD Opteron processor Model 2214 HE - 2.2 GHz (68W) <b>NOTE:</b> If 2 processors are desired, select one 411605-L21 and one 411605- B21.	411605-L21			
	AMD Opteron processor Model 2212 - 1.8 GHz (95W) <b>NOTE:</b> If 2 processors are desired, select one 411615-L21 and one 411615- B21.	411615-L21			
	AMD Opteron processor Model 2210 HE - 1.8 GHz (68W) <b>NOTE:</b> If 2 processors are desired, select one 411604-L21 and one 4116045- B21.	411604-L21			
Base Memory	1 GB REG PC2-5300 2X512 Kit	408850-B21			
	2 GB REG PC2-5300 2X1GB Kit				
	4 GB REG PC2-5300 2X2GB Kit	408853-B21			
	8 GB REG PC2-5300 2X4GB Kit	408854-B21			
Hard Drives	Serial-ATA (SATA) Non-Hot Plug Hard Drives (Non-Hot Plug Models Only)				
	HP 80GB 1.5G SATA 7.2K NHP 3.5" HDD	383410-B21			
	HP 160GB 1.5G SATA 7.2K NHP 3.5" HDD	411275-B21			
	HP 250GB 1.5G SATA 7.2K NHP 3.5" HDD	411276-B21			
	HP 500GB 1.5G SATA 7.2K NHP 3.5" HDD, FIO*	404469-B21			
	*Factory Integrated Only				
	Serial-ATA (SATA) Hot Plug Hard Drives (SATA/SAS Hot Plug Models Only)				
	HP 80GB SATA 7.2K Hot Plug 3.5" HDD	349237-B21			
	HP 160GB SATA 7.2K Hot Plug 3.5" HDD	349238-B21			
	HP 250GB SATA 7.2K Hot Plug 3.5" HDD	349239-B21			
	HP 500GB SATA 7.2K Hot Plug 3.5" HDD	395473-B21			
	HP 750GB SATA 7.2K Hot Plug 3.5" HDD	432341-B21			
	Serial-Attached SCSI (SAS) Hot Plug Hard Drives (SATA/SAS Hot Plug Models Only)				
	HP 36GB SAS 15K Hot Plug 3.5" HDD	375868-B21			
	-				



	HP 72GB SAS 15K Hot Plug 3.5" SP HDD	375870-B21
	HP 146GB SAS 15K Hot Plug 3.5" SP HDD	375872-B21
	HP 300GB SAS 15K Hot Plug 3.5 SP HDD	431944-B21
	NOTE: The purchase of SAS HBA or array controller is required.	
Storage Controller	HP SC44Ge Host Bus Adapter	416096-B21
	HP 8 Internal Port SAS HBA with RAID NOTE: For use with Hot Plug SATA/SAS models only NOTE: The selection of the HP 8 Internal Port SAS HBA with RAID requires the purchase of the PCI-X Riser Option kit (P/N 411625-B21)	347786-B21
	HP SATA/SAS Host Cable Kit <b>NOTE:</b> For use with Hot Plug SATA/SAS models only	389650-B21
	HP Smart Array E500/256MB Controller	435129-B21
	HP Smart Array E200/128 BBWC Controller	411508-B21
	HP HTX Riser Board Kit	411627-B21
	HP PCI-X Riser Board Kit	411625-B21
	Hot Plug Backplane Option Kit	411623-B21
	HP Single Channel U320 SCSI Controller <b>NOTE:</b> The selection of the 64-Bit/133-MHz Single Channel Ultra 320 SCSI HBA G2 requires the purchase of the PCI-X Riser Option kit (P/N 411625-B21)	374654-B21

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

**NOTE:** For additional options, please refer to the "Options" section below. Some options may not be available for factory integration. Please contact an HP sales representative for additional information.



### HP ProLiant DL145 Generation 3

# QuickSpecs

#### Options

ProLiant Essentials Licensing and	ProLiant Essentials Intelligent Networking Pack Windows Edition and Linux Edition					
Packaging	ProLiant Essentials Intelligent Networking Pack Windows Edition, Single Server License					
	<b>NOTE:</b> For use with a single server. Contains one license with a unique license activation key and documentation.					
	ProLiant Essentials Intelligent Networking Pack Linux Edition, Single Server License	436229-B21				
	<b>NOTE:</b> For use with a single server. Contains one license with a unique license activation key and documentation.					
	<b>NOTE:</b> For additional ProLiant Intelligent Networking Pack Windows Edition License Kits please see the QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/12062_div/12062_div.HTML					
	<b>NOTE:</b> For additional ProLiant Intelligent Networking Pack Linux Edition License Kits please see the QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/12327_div/12327_div.HTML					
	ProLiant Essentials Vulnerability and Patch Management Pack					
	ProLiant Essentials Vulnerability and Patch Management Pack, Single-Server License	371645-B21				
	<b>NOTE:</b> For use with a single server. Contains one license with a unique license activation key and documentation.					
	<b>NOTE:</b> For additional ProLiant Vulnerability and Patch Management Pack License Kits, please see the QuickSpecs at:					
	http://h18000.www1.hp.com/products/quickspecs/12111_div/12111_div.HTML					
	<b>NOTE:</b> Flexible and volume quantity license kits are available for ProLiant Essentials Value Packs. Refer to http://www.hp.com/servers/proliantessentials or the various ProLiant Essentials Value Pack product QuickSpecs for more information.					
	<b>NOTE:</b> For more information regarding ProLiant Essentials Software, please see the following URL: http://www.hp.com/servers/proliantessentials.					
Remote Management	Integrated Lights-Out Select Pack and Advanced Pack					
	HP Lights Out 100i Select Pack 1-Server License	413111-B21				
	LID Lights Out 100: Advanced Deals 1. Convert License	44044E D04				

 HP Lights Out 1001 Select Pack 1-Server License
 413111-B21

 HP Lights Out 100i Advanced Pack 1-Server License
 413115-B21

 NOTE: For additional ProLiant Integrated Light-Out Select Pack and Advanced
 413115-B21

 Pack License Kits please see the QuickSpecs at:
 413115-B21

 http://www.hp.com/servers/lights-out
 413115-B21



Options						
Processor	AMD Opteron™ processor Model 2220 (2.8 GHz (95W)	440721-B21				
	AMD Opteron processor Model 2218 - 2.6 GHz (95W)	411606-B21				
	AMD Opteron processor Model 2216 - 2.4 GHz (95W)	435014-B21				
	AMD Opteron processor Model 2216 HE - 2.4 GHz (68W)	411616-B21				
	AMD Opteron processor Model 2214 HE - 2.2 GHz (68W)	411605-B21				
	AMD Opteron processor Model 2210 - 1.8 GHz (95W)	411615-B21				
	AMD Opteron processor Model 2210 HE - 1.8 GHz (68W)	411604-B21				
Memory (DIMMs)	1 GB REG PC2-5300 2X512 Kit	408850-B21				
	2 GB REG PC2-5300 2X1GB Kit	408851-B21				
	4 GB REG PC2-5300 2X2GB Kit	408853-B21				
	8 GB REG PC2-5300 2X4GB Kit	408854-B21				
Hard Drives	Serial-ATA (SATA) Non-Hot Plug Hard Drives (Non-Hot Plug Models Only)					
	HP 80GB 1.5G SATA 7.2K NHP 3.5" HDD					
	HP 160GB 1.5G SATA 7.2K NHP 3.5" HDD	411275-B21				
	HP 250GB 1.5G SATA 7.2K NHP 3.5" HDD	411276-B21				
	<b>NOTE:</b> When purchasing systems with the 500GB Non-Hot Plug SATA drives, please reference the Configuration Information Section of this QuickSpecs to order via Configuration to Order.					
	Serial-ATA (SATA) Hot Plug Hard Drives (SATA/SAS Hot Plug Models Only)					
	HP 80GB SATA 7.2K Hot Plug 3.5" HDD					
	HP 160GB SATA 7.2K Hot Plug 3.5" HDD	349238-B21				
	HP 250GB SATA 7.2K Hot Plug 3.5" HDD	349239-B21				
	HP 500GB SATA 7.2K Hot Plug 3.5" HDD	395473-B21				
	HP 750GB SATA 7.2K Hot Plug 3.5" HDD	432341-B21				
	Serial-Attached SCSI (SAS) Hot Plug Hard Drives (SATA/SAS Hot Plug Models Only)					
	HP 36GB SAS 15K Hot Plug 3.5" HDD	375868-B21				
	HP 72GB SAS 15K Hot Plug 3.5" SP HDD	375870-B21				
	HP 146GB SAS 15K Hot Plug 3.5" SP HDD	375872-B21				
	HP 300GB SAS 15K Hot Plug 3.5 SP HDD					
	HP 300GB SAS 15K Hot Plug 3.5 SP HDD431944-B2NOTE: The purchase of SAS HBA or array controller is required.					
Graphic Cards	NVIDIA Quadro FX3500 256MB PCIe	435681-B21				
	NVIDIA Quadro FX1500 256MB PCIe	435703-B21				
	<b>NOTE:</b> At this time, these graphic cards are supported on Linux and Windows.					



Optical DrivesDVD-ROM Drive (optional)432878-B21DVD/CD RW Drive (optional)432880-B21Multibay II DVD/CD-RW Combo DrivePA850ANOTE: When purchasing the Multibay II DVD/CD-RW Combo Drive, (PNPA850ANOTE: When purchasing the Multibay II Cradle (PN PA509A) is required.PA509ANOTE: When purchasing the Multibay II DVD/CD-RW Combo Drive, (PN850A), the USB 2.0 Multibay II Cradle, (PN PA509A) is required.Storage ControllersHP SC44Ge Host Bus Adapter416096-B21HP SC11Xe Host Bus Adapter412911-B21HP SC11Xe Host Bus Adapter412911-B21HP SC11XE Host Bus Adapter412911-B21HP SC11XE Host Bus Adapter416096-B21HP SC11XE Host Bus Adapter412911-B21HP SC11XE Host Bus Adapter436129-B21HP STRAT Array E500/250B Controller435129-B21HP Smart Array E500/250B Controller435129-B21HP Strat Array E500/250B Controller43162-B21HP NC110T PCI Express Glagbit Server Adapter411625-B21HP NC310T PCI Express Glagbit Server Adapter43605-B21NOTE: The selection of the 64-Bit133-MHz Single Channel Ultra 320 SCSIHBA G2 requires the purchase of the PCI-X Riser Option kit (P/N 411625-B21)<	Options		
Multibay II DVD/CD-RW Combo Drive         PA860A           NOTE: When purchasing the Multibay II DVD/CD-RW Combo Drive, (P/N PA850A), the USB 2.0 Multibay II Cradle (PN PA509A) is required.         PA509A           Storage Controllers         HP SC44Ge Host Bus Adapter         416096-B21           HP SC11Xe Host Bus Adapter         416096-B21           HP SC11Xe Host Bus Adapter         412911-82           HP SC11Xe Host Bus Adapter         412911-82           HP S Internal Port SAS HBA with RAID         347786-B21           NOTE: The selection of the HP B Internal Port SAS HBA with RAID requires the purchase of the PC1-X Riser Option kit (P/N 411625-B21)         389650-B21           NOTE: For use with Hot Plug SATA/SAS models only         389650-B21           NOTE: For use with Hot Plug SATA/SAS models only         411625-B21           HP Smart Array E500/2560MB Controller         435129-B21           HP Smart Array E200/128 BBWC Controller         411625-B21           HP PCI-X Riser Board Kit         411625-B21           HP PCIX Riser Board Kit         411625-B21           HP PCIX Riser Board Kit         411625-B21           HP PCIX Riser Board Kit         411625-B21           HP NC100T PCI Express Quad Port Gigabit Server Adapter         434905-B21           HP NC110T PCI Express Ouad Port Gigabit Server Adapter         434905-B21           HP NC303T PCI Expr	Optical Drives	DVD-ROM Drive (optional)	432878-B21
NOTE: When purchasing the Multibay II DVD/CD-RW Combo Drive, (PN PA850A), the USB 2.0 Multibay II Cradle, (PN PA509A) is required.         PA509A           NOTE: When purchasing the Multibay II DVD/CD-RW Combo Drive, (PN 850A), the USB 2.0 Multibay II Cradle, (PN PA509A) is required.         PA509A           Storage Controllers         HP SC44Ge Host Bus Adapter         416096-821           HP SC11Xe Host Bus Adapter         412911-821           HP S Internal Port SAS HBA with RAID         347786-821           NOTE: For use with Hot Plug SATA/SAS models only         389650-821           NOTE: For use with Hot Plug SATA/SAS models only         389650-821           NOTE: For use with Hot Plug SATA/SAS models only         389650-821           NOTE: For use with Hot Plug SATA/SAS models only         45129-821           HP SATA/SAS Host Cable Kit         411627-821           HP Smart Array E200/128 BBWC Controller         435129-821           HP Smart Array E200/128 BBWC Controller         411627-821           HP PCI-X Riser Board Kit         411625-821           HP PCI-X Riser Board Kit         411625-821           HP RCH PUCHASE of the PCL-X Riser Option Kit (PN 411625-821)         411625-821           HP NC307 PCI Express Glaphi Server Adapter         414624-821           HP NC307 PCI Express Glaphi Server Adapter         414624-821           HP NC307 PCI Express Multifunction Gigabit Server Adapte	-	DVD/CD RW Drive (optional)	432880-B21
PA850A), the USB 2.0 Multibay II Cradle (P/N PA509A) is required.       PA509A         NOTE: When purchasing the Multibay II DVD/CD-RW Combo Drive, (P/N 850A), the USB 2.0 Multibay II Cradle, (P/N PA509A) is required.       PA509A         Storage Controllers       HP SC44Ge Host Bus Adapter       416096-821         HP SC11Xe Host Bus Adapter       412911-821         HP S C11Xe Host Bus Adapter       412911-821         HP S Internal Port SAS HBA with RAID       347786-821         NOTE: For use with Hot Plug SATA/SAS models only       347786-821         NOTE: For use with Hot Plug SATA/SAS models only       389650-821         NOTE: For use with Hot Plug SATA/SAS models only       389650-821         NOTE: For use with Hot Plug SATA/SAS models only       435129-821         HP Smart Array E500/256MB Controller       411602-821         HP Smart Array E500/256MB Controller       411625-821         HP PCI-X Riser Board Kit       411625-821         HP PCIX Riser Board Kit       411625-821         HP PCIX Riser Board Kit       411625-821         HP CH PUB Backplane Option Kit       411625-821         HP CH PUB Backplane Option Kit       411625-821         HP NC110T PCI Express Dual Port Gigabit Server Adapter       434905-821         HP NC330T PCI Express Dual Port Gigabit Server Adapter       412648-821         HP NC330T PCI Exp		Multibay II DVD/CD-RW Combo Drive	PA850A
USB 2.0 MultiBay II Cradle, External       PA509A         NOTE: When purchasing the Multibay II DVD/CD-RW Combo Drive, (P/N 850A), the USB 2.0 MultiBay II Cradle, (P/N PA509A) is required.       PA509A         Storage Controllers       HP SC44Ge Host Bus Adapter       416096-821         HP SC11Xe Host Bus Adapter       412911-821         HP S Internal Port SAS HBA with RAID       347786-821         NOTE: For use with Hot Plug SATA/SAS models only       347786-821         NOTE: The selection of the HP 8 Internal Port SAS HBA with RAID requires the purchase of the PC1-X Riser Option kit (P/N 411625-821)       389650-821         HP SATA/SAS Host Cable Kit       389650-821         NOTE: For use with Hot Plug SATA/SAS models only       411627-821         HP Smart Array E500/256MB Controller       435129-821         HP PCL-X Riser Board Kit       411625-821         HP PCLX Riser Board Kit       411625-821         HP PCLX Riser Board Kit       411625-821         HD PCLX Riser Board Kit       411625-821         HD RCB CP CI Express Gigabit Server Adapter       434905-821         HD RCB CP CI Express Quad Port Gigabit Server Adapter       434905-821         HP NC360T PCI Express Quad Port Gigabit Server Adapter       434905-821         HP NC373F PCI Express Quad Port Gigabit Server Adapter       434905-821         HP NC330T PCI Express Multifunction Gigabit Serve			
NOTE: When purchasing the Multibay II DVD/CD-RW Combo Drive, (P/N 850A), the USB 2.0 Multibay II Cradle, (P/N PA509A) is required.           Storage Controllers         HP SC44Ge Host Bus Adapter         416096-B21           HP SC11Xe Host Bus Adapter         412911-B21           HP Stitts Weith Bot PUGS STA/SAS models only         347786-B21           NOTE: For use with Hot PUg SATA/SAS models only         389650-B21           NOTE: For use with Hot PUG SATA/SAS models only         435129-B21           HP Smart Array E500/256MB Controller         435129-B21           HP Smart Array E200/128 BBWC coloroller         411627-B21           HP PCI-X Riser Board Kit         411625-B21           HD PUL Stinge Channel Ultra320 SCSI HBA G2         374654-B21           NOTE: The selection of the 64-Bit/133-MHz Single Channel Ultra 320 SCSI         HBA 62 requires the purchase of the PCI-X Riser Option kit (PIN 411625-B21)           Communications         HP NC110T PCI Express Gigabit Server Adapter         414945-B21           HP NC360T PCI Express Dual Port Gigabit Server Adapter         434905-B21			
850A), the USB 2.0 Multibay II Cradle, (P/N PA509A) is required.         Storage Controllers       HP SC44Ge Host Bus Adapter       416096-B21         HP SC11Xe Host Bus Adapter       412911-B21         HP 8 Internal Port SAS HBA with RAID       347786-B21         NOTE: For use with Hot Plug SATA/SAS models only       347786-B21         NOTE: For use with Hot Plug SATA/SAS models only       389650-B21         NOTE: For use with Hot Plug SATA/SAS models only       389650-B21         NDTE: For use with Hot Plug SATA/SAS models only       389650-B21         NDTE: For use with Hot Plug SATA/SAS models only       411627-B21         HP Smart Array E500/256MB Controller       435129-B21         HP Smart Array E500/128 BBWC Controller       411625-B21         HP PTX Riser Board Kit       411625-B21         HP PCI-X Riser Option Kit       411625-B21         HOTE: The selection of the 64-Bit/133-MHz Single Channel Ultra 320 SCSI       374654-B21         NOTE: The selection of the 64-Bit/133-MHz Single Channel Ultra 320 SCSI       414625-B21         NOTE: The selection of the 64-Bit/133-MHz Single Channel Ultra 320 SCSI       414625-B21         NOTE: The selection of the 64-Bit/133-MHz Single Channel Ultra 320 SCSI       HBA G2 requires the purchase of the PCI-X Riser Option kit (P/N 411625-B21)         Communications       HP NC110T PCI Express Quad Port Gigabit Server Adapter       414264			PA509A
HP SC11Xe Host Bus Adapter412911-B21HP 8 Internal Port SAS HBA with RAID347786-B21NOTE: For use with Hot Plug SATA/SAS models only NOTE: The selection of the HP 8 Internal Port SAS HBA with RAID requires the purchase of the PC1-X Riser Option kit (P/N 411625-B21)389650-B21HP SATA/SAS Host Cable Kit NOTE: For use with Hot Plug SATA/SAS models only389650-B21HP Smart Array E500/256MB Controller435129-B21HP Smart Array E500/256MB Controller411627-B21HP Port-X Riser Board Kit411627-B21HP PCL-X Riser Board Kit411625-B21Hot Plug Backplane Option Kit411625-B21Hot Plug Backplane Option Kit411625-B21HB AG2 requires the purchase of the PCI-X Riser Option kit (P/N 411625-B21)HBA G2 requires the purchase of the PCI-X Riser Option kit (P/N 411625-B21)HP NC360T PCI Express Gigabit Server Adapter434905-B21HP NC360T PCI Express Quad Port Gigabit Server Adapter434905-B21HP NC360T PCI Express Quad Port Gigabit Server Adapter434905-B21HP NC373T PCI Express Quad Port Gigabit Server Adapter394738-B21HP NC373T PCI Express Quad Port Gigabit Server Adapter394793-B21HP NC510C PCIe 10 Gigabit Server Adapter394795-B21HP NC510C PCIe 10 Gigabit Server Adapter414129-B21NOTE: A minimum of 1 gigabyte (1 GB) of server memory is required per each NC510C adapter.414126-B21NOTE: A minimum of 1 gigabyte (1 GB) of server memory is required per each NC510C adapter.414126-B21NOTE: A minimum of 1 gigabyte (1 GB) of server memory is required per each NC510C adapter.4			
HP 8 Internal Port SAS HBA with RAID347786-B21NOTE: Tro use with Hot Plug SATA/SAS models only NOTE: The selection of the HP 8 Internal Port SAS HBA with RAID requires the purchase of the PCI-X Riser Option kit (P/N 411625-B21)389650-B21HP SATA/SAS Host Cable Kit NOTE: Tro use with Hot Plug SATA/SAS models only HP Smart Array E500/256MB Controller435129-B21HP Smart Array E200/128 BBWC Controller411508-B21HP HTX Riser Board Kit411625-B21HP PCI-X Riser Board Kit411625-B21HO PUL Wig Backplane Option Kit411625-B21HO PUL Wig Backplane Option Kit411625-B21HBA G2 requires the purchase of the PCI-X Riser Option kit (P/N 411625-B21)HBA G2 requires the purchase of the PCI-X Riser Option kit (P/N 411625-B21)HBA C2 requires the purchase of the PCI-X Riser Option kit (P/N 411625-B21)HBA C2 requires the purchase of the PCI-X Riser Option kit (P/N 411625-B21)HBA C2 requires the purchase of the PCI-X Riser Option kit (P/N 411625-B21)HB NC360T PCI Express Gigabit Server Adapter412648-B21HP NC373F PCI Express Multifunction Gigabit Server Adapter419 NC373F PCI Express Multifunction Gigabit Server Adapter419 NC373F PCI Express Dual Port Multifunction Gigabit Server AdapterHP NC373F PCI Express Dual Port Multifunction Gigabit Server AdapterHP NC360T PCI Express Dual Port Multifunction Gigabit Server AdapterHP NC360C PCLe 10 Gigabit Server AdapterHP NC360T PCI Express Dual Port Multifunction Gigabit Server AdapterHP NC510C PCLe 10 Gigabit Server AdapterHP NC510F PCI Express Dual Port Multifunction Gigabit Server Adapter	Storage Controllers	HP SC44Ge Host Bus Adapter	416096-B21
NOTE: For use with Hot Plug SATA/SAS models only         NOTE: The selection of the HP 8 Internal Port SAS HBA with RAID requires the purchase of the PCI-X Riser Option kit (P/N 411625-B21)           HP SATA/SAS Host Cable Kit         389650-B21           NOTE: For use with Hot Plug SATA/SAS models only         435129-B21           HP Smart Array E500/256MB Controller         435129-B21           HP Smart Array E500/256MB Controller         411508-B21           HP Smart Array E500/256MB Controller         411508-B21           HP TX Riser Board Kit         411625-B21           HP PCI-X Riser Board Kit         411625-B21           Hot Plug Backplane Option Kit         411623-B21           Hot Plug Backplane Option Kit         411623-B21           Hot Plug Backplane Option Kit         411625-B21           Hot Plug Backplane Option Kit         411623-B21           MOTE: The selection of the 64-Bit/133-MHz Single Channel Ultra 320 SCSI         HBA G2 requires the purchase of the PCI-X Riser Option kit (P/N 411625-B21)           HD NC360T PCI Express Gigabit Server Adapter         434905-B21           HP NC360T PCI Express Qual Port Gigabit Server Adapter         435508-B21           HP NC337F PCI Express Multifunction Gigabit Server Adapter         394793-B21           HP NC310C PCIe 10 Gigabit Server Adapter         394795-B21           HP NC310C PCIe 10 Gigabit Server Adapter         394795-B21		HP SC11Xe Host Bus Adapter	412911-B21
NOTE: The selection of the HP 8 Internal Port SAS HBA with RAID requires the purchase of the PCI-X Riser Option kit (P/N 411625-B21)HP SATA/SAS Host Cable Kit NOTE: For use with Hot Plug SATA/SAS models only389650-B21HP Smart Array E500/256MB Controller435129-B21HP Smart Array E200/128 BBWC Controller411608-B21HP HTX Riser Board Kit411627-B21HP PCI-X Riser Board Kit411627-B21HP PCI-X Riser Board Kit411623-B21Hot Plug Backplane Option Kit411623-B2164-Bit/133-MHz Single Channel Ultra320 SCSI HBA G2374654-B21NOTE: The selection of the 64-Bit/133-MHz Single Channel Ultra 320 SCSI434905-B21HBA G2 requires the purchase of the PCI-X Riser Option kit (P/N 411625-B21)434905-B21HP NC360T PCI Express Gigabit Server Adapter434905-B21HP NC360T PCI Express Quad Port Gigabit Server Adapter434905-B21HP NC373T PCI Express Quad Port Gigabit Server Adapter394793-B21HP NC373T PCI Express Multifunction Gigabit Server Adapter394793-B21HP NC360T PCI Express Dual Port Multifunction Gigabit Server Adapter394795-B21HP NC373T PCI Express Dual Port Multifunction Gigabit Server Adapter394795-B21HP NC360T PCI Express Dual Port Multifunction Gigabit Server Adapter414129-B21NOTE: A minimum of 1 gigabyte (1 GB) of server memory is required per each NC510C Adapter.414126-B21NOTE: A minimum of 1 gigabyte (1 GB) of server memory is required per each NC510F adapter.414126-B21NOTE: A minimum of 1 gigabyte (1 GB) of server memory is required per each NC510F Adapter.414126-B21 <td></td> <td>HP 8 Internal Port SAS HBA with RAID</td> <td>347786-B21</td>		HP 8 Internal Port SAS HBA with RAID	347786-B21
purchase of the PCI-X Riser Option kit (P/N 411625-B21)HP SATA/SAS Host Cable Kit389650-B21NOTE: For use with Hot Plug SATA/SAS models only435129-B21HP Smart Array E500/256MB Controller411508-B21HP Smart Array E200/128 BBWC Controller411627-B21HP HTX Riser Board Kit411625-B21HP PCI-X Riser Board Kit411623-B21Hot Plug Backplane Option Kit411623-B21Hot Tius Backplane Option Kit411623-B21HOTE: The selection of the 64-Bit/133-MHz Single Channel Ultra 320 SCSI374654-B21HBA G2 requires the purchase of the PCI-X Riser Option kit (P/N 411625-B21)374654-B21HP NC360T PCI Express Gigabit Server Adapter434905-B21HP NC360T PCI Express Quad Port Gigabit Server Adapter43508-B21HP NC373F PCI Express Quad Port Gigabit Server Adapter394793-B21HP NC373T PCI Express Multifunction Gigabit Server Adapter394793-B21HP NC373T PCI Express Dual Port Multifunction Gigabit Server Adapter394793-B21HP NC510C PCIe 10 Gigabit Server Adapter394793-B21HP NC510C PCIe 10 Gigabit Server Adapter414129-B21NOTE: A minimum of 1 gigabyte (1 GB) of server memory is required per each NC510C adapter.414126-B21NOTE: A minimum of 1 gigabyte (1 GB) of server memory is required per each NC510F adapter.414126-B21HP IB 4X DDR PCI-E Dual Port Hot NC510F PCI = 20 Port Hot403976-B21Myrinet PCI 2XP Rev-E 4MB Network Interface Card Myrinet 2XP PCI-X, Fiber F-Series, 2MB NIC390456-B21			
HP SATA/SAS Host Cable Kit389650-B21NOTE: For use with Hot Plug SATA/SAS models only435129-B21HP Smart Array E500/256MB Controller435129-B21HP Smart Array E200/128 BBWC Controller411627-B21HP PCL-X Riser Board Kit411627-B21HP PCL-X Riser Board Kit411625-B21Hot Plug Backplane Option Kit411623-B2164-Bit/133-MHz Single Channel Ultra320 SCSI HBA G2374654-B21NOTE: The selection of the 64-Bit/133-MHz Single Channel Ultra 320 SCSIHBA G2 requires the purchase of the PCI-X Riser Option kit (P/N 411625-B21)CommunicationsHP NC110T PCI Express Gigabit Server Adapter434905-B21HP NC360T PCI Express Dual Port Gigabit Server Adapter434905-B21HP NC364T PCI Express Quad Port Gigabit Server Adapter394793-B21HP NC373F PCI Express Quad Port Gigabit Server Adapter394793-B21HP NC300T PCI Express Dual Port Multifunction Gigabit Server Adapter394791-B21HP NC300T PCI Express Dual Port Multifunction Gigabit Server Adapter394795-B21HP NC510C PCIe 10 Gigabit Server Adapter414129-B21NOTE: A minimum of 1 gigabyte (1 GB) of server memory is required per each NC510C adapter.414126-B21NOTE: A minimum of 1 gigabyte (1 GB) of server memory is required per each NC510F adapter.414126-B21NOTE: A minimum of 1 gigabyte (1 GB) of server memory is required per each NC510F adapter.414126-B21NOTE: A minimum of 1 gigabyte (1 GB) of server memory is required per each NC510F adapter.414126-B21NOTE: A minimum of 1 gigabyte (1 GB) of server memory is required per each <b< td=""><td></td><td></td><td></td></b<>			
NOTE: For use with Hot Plug SATA/SAS models onlyHP Smart Array E500/256MB Controller435129-B21HP Smart Array E200/128 BBWC Controller411508-B21HP HTX Riser Board Kit411627-B21HP PCI-X Riser Board Kit411625-B21Hot Plug Backplane Option Kit411623-B2164-Bit/133-MHz Single Channel Ultra320 SCSI HBA G2374654-B21NOTE: The selection of the 64-Bit/133-MHz Single Channel Ultra 320 SCSIHBA G2 requires the purchase of the PCI-X Riser Option kit (P/N 411625-B21)CommunicationsHP NC110T PCI Express Gigabit Server Adapter434905-B21HP NC360T PCI Express Dual Port Gigabit Server Adapter434905-B21HP NC364T PCI Express Quad Port Gigabit Server Adapter434905-B21HP NC373T PCI Express Quad Port Gigabit Server Adapter394793-B21HP NC510C PCIe 10 Gigabit Server Adapter394791-B21HP NC510C PCIe 10 Gigabit Server Adapter394795-B21HP NC510F PCI Express Dual Port Multifunction Gigabit Server Adapter394795-B21HP NC510C PCIe 10 Gigabit Server Adapter414129-B21NOTE: A minimum of 1 gigabyte (1 GB) of server memory is required per each NC510C adapter.414126-B21NOTE: A minimum of 1 gigabyte (1 GB) of server memory is required per each NC510F adapter.380298-B21HP IB 4X DDR PCI-E Dual Port Host Adapter380298-B21HP IB 4X DDR PCI-E Dual Port Host Adapter380298-B21HP IB 4X DDR PCI-E Dual Port Host Adapter380298-B21HP IB 4X DDR PCI-E Dual Port Host Adapter37393-B21Myrinet PCI 2XP Rev-E 4MB Network Interface Card37393		,	389650-B21
HP Smart Array E500/256MB Controller435129-B21HP Smart Array E200/128 BBWC Controller411508-B21HP HTX Riser Board Kit411627-B21HP PCI-X Riser Board Kit411625-B21HO PUg Backplane Option Kit411625-B2164-Bit/133-MHz Single Channel Ultra320 SCSI HBA G2374654-B21NOTE: The selection of the 64-Bit/133-MHz Single Channel Ultra 320 SCSIHBA G2 requires the purchase of the PCI-X Riser Option kit (P/N 411625-B21)CommunicationsHP NC110T PCI Express Gigabit Server Adapter434905-B21HP NC360T PCI Express Dual Port Gigabit Server Adapter435508-B21HP NC364T PCI Express Quad Port Gigabit Server Adapter43508-B21HP NC373F PCI Express Multifunction Gigabit Server Adapter394793-B21HP NC373T PCI Express Dual Port Gigabit Server Adapter394793-B21HP NC373T PCI Express Dual Port Multifunction Gigabit Server Adapter414129-B21NOTE: A minimum of 1 gigabyte (1 GB) of server memory is required per each NC510C adapter.414126-B21NOTE: A minimum of 1 gigabyte (1 GB) of server memory is required per each NC510F adapter.414126-B21NOTE: A minimum of 1 gigabyte (1 GB) of server memory is required per each NC510F adapter.414126-B21NOTE: A minimum of 1 gigabyte (1 GB) of server memory is required per each NC510F adapter.414126-B21HP IB 4X DDR PCI-E Dual Port HCA Myrinet PCI 2XP Rev-E 4MB Network Interface Card Myrinet PCI 2XP Rev-E 4MB Network Interface Card Myrinet 2XP PCI-X, Fiber F-Series, 2MB NIC390456-B21			00000-D21
HP HTX Riser Board Kit411627-B21HP PCI-X Riser Board Kit411625-B21Hot Plug Backplane Option Kit411623-B2164-Bit/133-MHz Single Channel Ultra320 SCSI HBA G2374654-B21NOTE: The selection of the 64-Bit/133-MHz Single Channel Ultra 320 SCSI374654-B21HBA G2 requires the purchase of the PCI-X Riser Option kit (P/N 411625-B21)434905-B21HP NC110T PCI Express Gigabit Server Adapter4134905-B21HP NC360T PCI Express Dual Port Gigabit Server Adapter412648-B21HP NC364T PCI Express Quad Port Gigabit Server Adapter435508-B21HP NC373F PCI Express Multifunction Gigabit Server Adapter394793-B21HP NC373T PCI Express Dual Port Multifunction Gigabit Server Adapter394793-B21HP NC380T PCI Express Dual Port Multifunction Gigabit Server Adapter394793-B21HP NC510C PCIE to Gigabit Server Adapter414129-B21NOTE: A minimum of 1 gigabyte (1 GB) of server memory is required per each NC510C adapter.414126-B21NOTE: A minimum of 1 gigabyte (1 GB) of server memory is required per each NC510F adapter.414126-B21NOTE: A minimum of 1 gigabyte (1 GB) of server memory is required per each NC510F adapter.414126-B21HP IB 4X DDR PCI-E Dual Port Host Adapter380298-B21HP IB 4X DDR PCI-E Dual Port HCA Myrinet PCI 2XP Rev-E 4MB Network Interface Card Myrinet 2XP PCI-X, Fiber F-Series, 2MB NIC390456-B21		-	435129-B21
HP PCI-X Riser Board Kit411625-B21Hot Plug Backplane Option Kit411623-B2164-Bit/133-MHz Single Channel Ultra320 SCSI HBA G2374654-B21NOTE: The selection of the 64-Bit/133-MHz Single Channel Ultra 320 SCSIHBA G2 requires the purchase of the PCI-X Riser Option kit (P/N 411625-B21)CommunicationsHP NC110T PCI Express Gigabit Server Adapter434905-B21HP NC360T PCI Express Dual Port Gigabit Server Adapter435508-B21HP NC364T PCI Express Quad Port Gigabit Server Adapter435508-B21HP NC373F PCI Express Multifunction Gigabit Server Adapter394793-B21HP NC373T PCI Express Dual Port Multifunction Gigabit Server Adapter394791-B21HP NC380T PCI Express Dual Port Multifunction Gigabit Server Adapter394795-B21HP NC510C PCIe 10 Gigabit Server Adapter414129-B21NOTE: A minimum of 1 gigabyte (1 GB) of server memory is required per each NC510C adapter.414126-B21HO NC510F PCIe 10 Gigabit Server Adapter414126-B21NOTE: A minimum of 1 gigabyte (1 GB) of server memory is required per each NC510F adapter.380298-B21HP IB AX DDR PCI-E Dual Port Host Adapter380298-B21HP IB 4X DDR PCI-E Dual Port HCA409376-B21Myrinet PCI 2XP Rev-E 4MB Network Interface Card Myrinet 2XP PCI-X, Fiber F-Series, 2MB NIC390456-B21		HP Smart Array E200/128 BBWC Controller	411508-B21
Hot Plug Backplane Option Kit411623-B2164-Bit/133-MHz Single Channel Ultra320 SCSI HBA G2374654-B21NOTE: The selection of the 64-Bit/133-MHz Single Channel Ultra 320 SCSI374654-B21HBA G2 requires the purchase of the PCI-X Riser Option kit (P/N 411625-B21)374654-B21CommunicationsHP NC110T PCI Express Gigabit Server Adapter434905-B21HP NC360T PCI Express Dual Port Gigabit Server Adapter412648-B21HP NC364T PCI Express Quad Port Gigabit Server Adapter435508-B21HP NC373F PCI Express Multifunction Gigabit Server Adapter394793-B21HP NC373T PCI Express Dual Port Multifunction Gigabit Server Adapter394791-B21HP NC510C PCIe 10 Gigabit Server Adapter414129-B21NOTE: A minimum of 1 gigabyte (1 GB) of server memory is required per each NC510F adapter.414126-B21NOTE: A minimum of 1 gigabyte (1 GB) of server memory is required per each NC510F adapter.414126-B21NOTE: A minimum of 1 gigabyte (1 GB) of server memory is required per each NC510F adapter.380298-B21HP IB 4X DDR PCI-E Dual Port Host Adapter380298-B21HP IB 4X DDR PCI-E Dual Port HCA409376-B21Myrinet PCI 2XP Rev-E 4MB Network Interface Card Myrinet 2XP PCI-X, Fiber F-Series, 2MB NIC390456-B21		HP HTX Riser Board Kit	411627-B21
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Myrinet 2XP PCI-X, Fiber F-Series, 2MB NIC 390456-B21			409376-B21
		Myrinet PCI 2XP Rev-E 4MB Network Interface Card	373983-B21
Myrinet-Fiber/PCI-X Interface (Dual channel Rev. D card) 360040-B21		-	390456-B21
		Myrinet-Fiber/PCI-X Interface (Dual channel Rev. D card)	360040-B21



Options							
	<b>NOTE:</b> For HPC interconnect adapters please see the HPC Interconnect section of this QuickSpecs.						
Rack Kits	1U Cable Management Arm <b>NOTE:</b> Package contains two cable management arms.	365403-B21					
Tape Drives	USB Tape Drives						
	HP StorageWorks DAT 40 USB Internal Tape Drive (Carbonite) <b>NOTE:</b> HP recommends combining this tape drive with the 1U USB Rack-Mount kit (A8007A) for a complete rack-mount solution.	DW022A					
	HP StorageWorks DAT 72 USB Internal Tape Drive (Carbonite) <b>NOTE:</b> HP recommends combining this tape drive with the 1U USB Rack-Mount kit (A8007A) for a complete rack-mount solution.	DW026A					
	DAT External Tape Drives						
	HP StorageWorks DAT 40 SCSI Internal Tape Drive (Carbon) <b>NOTE:</b> HP recommends combining this tape drive with the 1U SCSI Rack- Mount kit (A7445B) for a complete rack-mount solution.	C5686C					
	HP StorageWorks DAT 72 SCSI Internal Tape Drive (Carbon) <b>NOTE:</b> HP recommends combining this tape drive with the 1U SCSI Rack- Mount kit (A7445B) for a complete rack-mount solution.	Q1522B					
	Ultrium External Tape Drives						
	HP StorageWorks Ultrium 232 Internal Tape Drive, (Carbonite) <b>NOTE:</b> HP recommends combining this tape drive with the 1U SCSI Rack- Mount kit (A7445B) for a complete rack-mount solution.	DW064A					
	Rack-Mount Tape Drive						
	HP StorageWorks 1U SCSI Rack-Mount kit <b>NOTE:</b> The 1U Rack-Mount Kit can support up to (2) half-height tape drives and is compatible with multiple Single-Ended and LVD SCSI tape drives including the DAT 24, DAT 40, DAT 72, DLT VS80, DLT VS160, Ultrium 215, Ultrium 232, Ultrium 448 and Ultrium 920 tape drives.	A7445B					
	HP StorageWorks 1U USB Rack-Mount Kit <b>NOTE:</b> The 1U USB Rack-Mount Kit can support up to (2) half-height tape drives and is compatible with the DAT 24 USB, DAT 40 USB and DAT 72 USB tape drives.	A8007A					
	<b>NOTE:</b> When attaching to an external tape drive, autoloader or library, you must also purchase a HBA <b>NOTE:</b> For a complete listing of HP tape drive offerings supported with the						
	DL145 G3, visit http://www.hp.com/products1/storage/compatibility/tapebackup/ISS/index.html						



### Options

#### StorageWorks Options StorageWorks Fibre Channel HBA

	<b>NOTE:</b> The following is a list of all Fibre Channel Host Bus Adapters for Windows and Linux. For detailed competibility information places again	
	Windows and Linux. For detailed compatibility information please see: http://h18006.www1.hp.com/storage/saninfrastructure/hba.html	
	HP StorageWorks FC2214DC 2 Gb, Dual Port, 64-Bit/133 MHz PCI-X HBA	321835-B21
	HP StorageWorks 2 Gb, Single Channel, 133 MHz PCI-X HBA	A7388A
	HP StorageWorks 2 Gb, Dual Channel, 133 MHz PCI-X HBA	A7387A
	HP StorageWorks FC2142SR 4Gb PCI-e HBA	A8002A
	HP StorageWorks FC2242SR Dual Channel 4 Gb PCI-e HBA	A8003A
	•	A6003A AE311A
	HP StorageWorks FC1142SR 4Gb PCI-e HBA	
	HP StorageWorks FC1242SR Dual Channel 4 Gb PCI-e HBA	AE312A
	HP StorageWorks FC2143 4Gb PCI-X 2.0 - to Fibre Channel HBA	AD167A
	HP StorageWorks FC2243 Dual Channel 4Gb PCI-X 2.0 HBA	AD168A
	StorageWorks SCSI HBA	
	HP U320e SCSI Host Bus Adapter	AH627A
	<b>NOTE:</b> Recommended Dual Channel Ultra320 SCSI Controller for connecting multi-drive MSL tape libraries to ProLiant servers	
USB Options	512MB USB Drive Key	ED516AA
	HP 1GB Drive Key II- USB 2.0 Flash Drive	AG382AA
	HP USB-P/S2 Mouse	DC369A
	HP Keyboard (USB) standard 2004	DT528A#
	USB 1.44-MB External Diskette Drive	DC361B
HP KVM Switch	HP 1x4 Console Switch	AF611A
Options	HP PS2 Server Console Cable, 6 foot, 2-Pack	AF612A
	HP USB Server Console Cable, 6 foot, 2-Pack	AF613A
	<b>NOTE:</b> required for supporting USB peripheral	
	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	



Options					
HP Serial Console	HP 16 Port Serial Console Server (worldwide)				
Server Options	HP 48 Port Serial Console Server (worldwide)				
	Serial Adapter, RJ45-D89 DCE Female, 1-pack	AF103A			
	Serial Adapter, RJ45-D89 DCE Female, 8-pack	AF110A			
	<b>NOTE:</b> 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				
	<b>NOTE:</b> 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				
	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 <b>NOTE:</b> Requires PS/2 and one USB port on server.	AF604A			
Service and Support	Hardware Services 4-Hour On-site Service				
Offerings (HP Care	13-Hour x 5-Day Coverage, 3 Years, Electronic	U9509E			
Pack Services)	24-Hour x 7-Day Coverage, 3 Years, Electronic	U9510E			
	Hardware Services Next Business Day On-Site Service				
	9-Hour x 5-Day Coverage, 3 Years, Electronic	U9508E			
	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	U9511E			
	Hardware Installation, Electronic	U9520E			
	<b>NOTE:</b> For more information, customer/resellers can contact http://www.hp.com/services/carepack.				



#### Memory

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

#### HP ProLiant DL145 G3 (all models)

#### Standard Memory

1 GB (2 x 512 MB) PC2-5300 DIMM memory, with Advanced ECC Capabilities memory installed. 2 GB (2 x 1 GB) PC2-5300 DIMM memory, with Advanced ECC Capabilities memory installed. 4 GB (2 x 2GB) PC2-5300 DIMM memory, with Advanced ECC Capabilities memory installed.

#### **Maximum Memory**

Up to 32GB memory is available with the optional installation of PC2-5300 Registered DIMM memory kits. Memory should be installed in pairs and matched for optimum performance.

NOTE: Chart does not represent all possible memory configurations.

Memory	Slot							
	1	1 2 3 4 5 6 7 8						
Standard (1 GB)	512 MB	512 MB	Empty	Empty	Empty	Empty	Empty	Empty
Standard (2 GB)	1 GB	1 GB	Empty	Empty	Empty	Empty	Empty	Empty
Standard (4GB)	2 GB	2 GB	Empty	Empty	Empty	Empty	Empty	Empty
Maximum (32 GB)	4 GB	4 GB	4 GB	4 GB	4 GB	4 GB	4 GB	4 GB

Following are memory options available from HP:

1 GB REG PC2-5300 2X512 Kit 2 GB REG PC2-5300 2X1GB Kit

4 GB REG PC2-5300 2X2GB Kit

8 GB REG PC2-5300 2X4GB Kit

408850-B21 408851-B21 408853-B21 408854-B21



### Storage



- 1,2 Two Non-hot plug SATA or Two 3.5" Hot Plug SATA/SAS Hard Drive Bays
- A Optional CD-ROM, DVD-ROM, DVD/CD RW

### **Drive Support**

	Quantity Supported	Position Supported	Controller
DVD-ROM	Up to 1	3	Integrated IDE (ATAPI) (optional)
DVD/CD RW	Up to 1	3	Integrated IDE (ATAPI) (optional)

#### Hard Drives

SATA - Non-Hot Plug

	Quantity Supported	Position Supported	Controller
3.5-inch			
80GB 7,200 rpm	Up to 2	1;2	HP Embedded SATA Controller
160GB 7,200 rpm	Up to 2	1;2	HP Embedded SATA Controller
250GB 7,200 rpm	Up to 2	1;2	HP Embedded SATA Controller
500GB 7,200 rpm	Up to 2	1;2	HP Embedded SATA Controller

#### SATA/SAS Hot Plug

	Quantity Supported	Position Supported	Controller
<b>3.5-inch</b> 80GB SATA 7,200 rpm 160GB SATA 7,200 rpm 250GB SATA 7,200 rpm 500GB SATA 7,200 rpm 750GB SATA 7,200 rpm	Up to 2	1;2	HP 8 Internal Port SAS HBA with RAID
SAS Hot Plug 36GB SAS 15,000 rpm 72GB SAS 15,000 rpm 146GB SAS 15,000 rpm 300GB SAS 15,000 rpm	Up to 2	1;2	HP 8 Internal Port SAS HBA with RAID



#### Storage

#### **Tape Drives**

**NOTE:** For an up-to-date listing of the latest O/S Support details for each of the Tape Drives listed below, please see the following:

http://h18000.www1.hp.com/products/quickspecs/Division/10233.html (Worldwide)

NOTE: For complete listing of tape drive offerings see

http://www.hp.com/products1/storage/compatibility/tapebackup/ISS/index.html For recommended tape drive offerings for this ProLiant server see the following:

For supported tape drive offerings for this ProLiant server see the following:						
	Position Supported	Controller	Controller/HBA Option Kit Part Number			
HP StorageWorks Tape Drives, External DAT 24 USB DAT 40 USB DAT 72 USB	External	USB 2.0 Port	N/A			
HP StorageWorks Tape Drives, External Ultrium 232 DAT 40 DAT 72	External	<b>NOTE:</b> PCI-X Riser Option Kit (P/N 411625-B21) required to connect to the following SCSI HBA 64-Bit/133-MHz Single Channel Ultra320 SCSI HBA G2	374654-B21			
HP StorageWorks SCSI Rack-mount Tape Drive Enclosures	External	<b>NOTE:</b> PCI-X Riser Option Kit (P/N 411625-B21) required to connect to the following SCSI HBA 64-Bit/133-MHz Single Channel Ultra320 SCSI HBA G2	374654-B21			
1U Rack-Mount Kit		HP U320e SCSI Host Bus Adapter <b>NOTE:</b> Only valid for MSL tape libraries	AH627A			



### **Power Specifications**

Spare Kit	434418-001
Operational Input Voltage Range (Vrms)	90Vac to 264Vac full range at 25oC ambient
Frequency Range (Nominal) (Hz)	47 Hz to 63 Hz
Power Output	650W Nominal
Power Cords	(Nema 5-15P to IEC320-C13)
Standard Power Cord Part Number (US)	307348-B21
Optional Power Cord Part Number (US)	r 307372-001



### **Technical Specifications**

System UnitDimensions (HxWxD)1.70 x 16.78 x 26.53 in (4.32 x 42.62 x 67.39 cm)Weight (approximate; fully configured)40 lb (18.14 kg)Input Requirements (per power supply)Range Input Voltage90 to 140 VAC/180 to 264 VAC Normal Line VoltageLine Frequency Rated Input Current47 to 63 HzRated Input Current7.1A at 115VAC, 3.6A at 230VAC	
Input Requirements (per power supply)Range Input Voltage90 to 140 VAC/180 to 264 VAC 115 or 230 VACLine Frequency47 to 63 Hz	
Rated Input Current 7 1A at 115//AC 3 6A at 230//AC	
load	
BTU Rating BTU-Hr (max 2371 configuration)	
Power Supply OutputRated Steady-State650WPower (per powerPowersupply)	
Temperature Range Operating 50° to 93° F (10° to 35° C)	
<b>Shipping</b> -40° to 158° F (-40° to 70° C)	
Relative Humidity Operating 10% to 90%	
(non-condensing) Non-operating 5% to 95%	
Acoustic Noise Idle (Fixed Disk Drives Spinning)	
L WAd (BELS)	
<b>Operating</b> (Random Seeks to Fixed Disks)	
<b>L</b> WAd (BELS) <6.4	
Non-Hot Plug SATA 80-GB 7.2K Capacity 80027 MB	
Hard Drives         383410-B21         Height         1.028 in (2.61 cm)	
<b>Width</b> 4.0 in (10.16 cm)	
Interface SATA 100	
Transfer Rate 100 MB/s Synchronous (Maximum)	
Seek Time (typical Single Track	
reads, including settling) Average	
Full-Stroke	
Rotational Speed	
Physical Configuration Bytes/Sector	
Logical Blocks	
Operating41° to 131° F (5° to 55° C)Temperature	



### **Technical Specifications**

Embedded SATA Controller	Drives Supported Channels Storage Capacity Data Transfer Method Maximum SATA Channel Transfer Rate Maximum Transfer Rate per PCI Bus (peak) Protocols Cable Internal ATA	Up to 2 SATA devices 2 (SATA Drives) 1.5 TB internal storage 32-bit/33-MHz PCI bus-m 100 MB/s per channel 266 MB/s per channel SATA PIO Mode[0-4] SATA Two SATA Connectors (p		
	Connectors			
HP 8 Internal Port SAS HBA with RAID	••	Up to 2 SATA/SAS drives		
(347786-B21)	Channels	8		
( , , , , , , , , , , , , , , , , , , ,	Storage Capacity	600GB		
	Data Transfer Method			
	Maximum Host Bus Transfer Rate	1.06Gb/sec		
	Maximum SAS transfer rate	r 300MB/sec per port		
	Protocols Supported	SSP, STP, SMP		
	Internal Connectors	2 SAS		
NC326i PCle Dual Port		10Base-T/100Base-TX/1000Base-TX		
Gigabit Server Adapter	Compatibility	IEEE 802.3 10Base-T		
		IEEE 802.3 1000Base-T		
		IEEE 802.3 100Base-TX		
		64-bit, 133MHz PCI(X)1.0		
	Network Transfer Rate	,	10 Mb/s	
		10Base-T (Full-Duplex)	20 Mb/s	
		100Base-TX (Half- Duplex)	100 Mb/s	
		100Base-TX (Full- Duplex)	200 Mb/s	
		1000Base-TX (Half and Full-Duplex)	2000 Mb/s	
	Connector	RJ-45		
	Cable Support	10Base-T	Categories 3, 4 or 5 UTP; up to 328 ft (100 m)	
		10/100/1000Base-TX	Category 5 UTP (2 Pair); up to 328 ft (100 m)	



Technical Specifications

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

